



03/04/08



Technical Report for

KLEINFELDER

Falcon Refinery Superfund Site/Ingleside, TX

Accutest Job Number: T19891

Sampling Date: 11/29/07

Report to:

KLEINFELDER

shalasz@kleinfelder.com

ATTN: Stephen Halasz

Total number of pages in report: **275**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Ron Martino
Laboratory Manager

Client Service contact: Sylvia Garza 713-271-4700

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



Table of Contents

-1-

<table style="width: 100%; border-collapse: collapse;"> <tr><td>Section 1: Sample Summary</td><td style="text-align: right;">4</td></tr> <tr><td>Section 2: Case Narrative/Conformance Summary</td><td style="text-align: right;">6</td></tr> <tr><td>Section 3: Sample Results</td><td style="text-align: right;">13</td></tr> <tr><td> 3.1: T19891-1: FR-054</td><td style="text-align: right;">14</td></tr> <tr><td> 3.2: T19891-2: FR-055</td><td style="text-align: right;">21</td></tr> <tr><td> 3.3: T19891-3: FR-056</td><td style="text-align: right;">28</td></tr> <tr><td> 3.4: T19891-4: FR-057</td><td style="text-align: right;">35</td></tr> <tr><td> 3.5: T19891-5: FR-058</td><td style="text-align: right;">42</td></tr> <tr><td> 3.6: T19891-5D: FR-058 MSD</td><td style="text-align: right;">49</td></tr> <tr><td> 3.7: T19891-5S: FR-058 MS</td><td style="text-align: right;">50</td></tr> <tr><td> 3.8: T19891-6: FR-059</td><td style="text-align: right;">51</td></tr> <tr><td> 3.9: T19891-7: FR-060</td><td style="text-align: right;">58</td></tr> <tr><td> 3.10: T19891-8: FR-061</td><td style="text-align: right;">65</td></tr> <tr><td> 3.11: T19891-9: FR-062</td><td style="text-align: right;">72</td></tr> <tr><td> 3.12: T19891-10: FR-063</td><td style="text-align: right;">79</td></tr> <tr><td> 3.13: T19891-11: FR-064</td><td style="text-align: right;">87</td></tr> <tr><td> 3.14: T19891-12: FR-065</td><td style="text-align: right;">97</td></tr> <tr><td> 3.15: T19891-13: FR-066</td><td style="text-align: right;">107</td></tr> <tr><td> 3.16: T19891-14: FR-067</td><td style="text-align: right;">115</td></tr> <tr><td> 3.17: T19891-15: FR-068</td><td style="text-align: right;">122</td></tr> <tr><td> 3.18: T19891-16: FR-069</td><td style="text-align: right;">129</td></tr> <tr><td> 3.19: T19891-17: FR-070</td><td style="text-align: right;">136</td></tr> <tr><td> 3.20: T19891-18: FR-071</td><td style="text-align: right;">143</td></tr> <tr><td> 3.21: T19891-19: FR-072</td><td style="text-align: right;">150</td></tr> <tr><td> 3.22: T19891-20: TRIP BLANK</td><td style="text-align: right;">158</td></tr> <tr><td> 3.23: T19891-21: TRIP BLANK</td><td style="text-align: right;">160</td></tr> <tr><td> 3.24: T19891-22: TRIP BLANK</td><td style="text-align: right;">162</td></tr> <tr><td>Section 4: Misc. Forms</td><td style="text-align: right;">164</td></tr> <tr><td> 4.1: Chain of Custody</td><td style="text-align: right;">165</td></tr> <tr><td> 4.2: LRC Form</td><td style="text-align: right;">170</td></tr> <tr><td>Section 5: GC/MS Volatiles - QC Data Summaries</td><td style="text-align: right;">174</td></tr> <tr><td> 5.1: Method Blank Summary</td><td style="text-align: right;">175</td></tr> <tr><td> 5.2: Blank Spike Summary</td><td style="text-align: right;">181</td></tr> <tr><td> 5.3: Matrix Spike/Matrix Spike Duplicate Summary</td><td style="text-align: right;">190</td></tr> <tr><td>Section 6: GC/MS Semi-volatiles - QC Data Summaries</td><td style="text-align: right;">199</td></tr> <tr><td> 6.1: Method Blank Summary</td><td style="text-align: right;">200</td></tr> <tr><td> 6.2: Blank Spike Summary</td><td style="text-align: right;">206</td></tr> <tr><td> 6.3: Matrix Spike/Matrix Spike Duplicate Summary</td><td style="text-align: right;">211</td></tr> <tr><td>Section 7: GC Semi-volatiles - QC Data Summaries</td><td style="text-align: right;">217</td></tr> <tr><td> 7.1: Method Blank Summary</td><td style="text-align: right;">218</td></tr> <tr><td> 7.2: Blank Spike Summary</td><td style="text-align: right;">221</td></tr> <tr><td> 7.3: Matrix Spike/Matrix Spike Duplicate Summary</td><td style="text-align: right;">224</td></tr> </table>	Section 1: Sample Summary	4	Section 2: Case Narrative/Conformance Summary	6	Section 3: Sample Results	13	3.1: T19891-1: FR-054	14	3.2: T19891-2: FR-055	21	3.3: T19891-3: FR-056	28	3.4: T19891-4: FR-057	35	3.5: T19891-5: FR-058	42	3.6: T19891-5D: FR-058 MSD	49	3.7: T19891-5S: FR-058 MS	50	3.8: T19891-6: FR-059	51	3.9: T19891-7: FR-060	58	3.10: T19891-8: FR-061	65	3.11: T19891-9: FR-062	72	3.12: T19891-10: FR-063	79	3.13: T19891-11: FR-064	87	3.14: T19891-12: FR-065	97	3.15: T19891-13: FR-066	107	3.16: T19891-14: FR-067	115	3.17: T19891-15: FR-068	122	3.18: T19891-16: FR-069	129	3.19: T19891-17: FR-070	136	3.20: T19891-18: FR-071	143	3.21: T19891-19: FR-072	150	3.22: T19891-20: TRIP BLANK	158	3.23: T19891-21: TRIP BLANK	160	3.24: T19891-22: TRIP BLANK	162	Section 4: Misc. Forms	164	4.1: Chain of Custody	165	4.2: LRC Form	170	Section 5: GC/MS Volatiles - QC Data Summaries	174	5.1: Method Blank Summary	175	5.2: Blank Spike Summary	181	5.3: Matrix Spike/Matrix Spike Duplicate Summary	190	Section 6: GC/MS Semi-volatiles - QC Data Summaries	199	6.1: Method Blank Summary	200	6.2: Blank Spike Summary	206	6.3: Matrix Spike/Matrix Spike Duplicate Summary	211	Section 7: GC Semi-volatiles - QC Data Summaries	217	7.1: Method Blank Summary	218	7.2: Blank Spike Summary	221	7.3: Matrix Spike/Matrix Spike Duplicate Summary	224	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="background-color: #003366; color: white; width: 10px;"></td><td style="font-size: 1.5em; font-weight: bold;">1</td></tr> <tr><td style="background-color: #008000; color: white; width: 10px;"></td><td style="font-size: 1.5em; font-weight: bold;">2</td></tr> <tr><td style="background-color: #CC9900; color: white; width: 10px;"></td><td style="font-size: 1.5em; font-weight: bold;">3</td></tr> <tr><td style="background-color: #CC0000; color: white; width: 10px;"></td><td style="font-size: 1.5em; font-weight: bold;">4</td></tr> <tr><td style="background-color: #8B4513; color: white; width: 10px;"></td><td style="font-size: 1.5em; font-weight: bold;">5</td></tr> <tr><td style="background-color: #A9A9A9; color: black; width: 10px;"></td><td style="font-size: 1.5em; font-weight: bold;">6</td></tr> <tr><td style="background-color: #8B4513; color: white; width: 10px;"></td><td style="font-size: 1.5em; font-weight: bold;">7</td></tr> <tr><td style="background-color: #008000; color: white; width: 10px;"></td><td style="font-size: 1.5em; font-weight: bold;">8</td></tr> <tr><td style="background-color: #CC0000; color: white; width: 10px;"></td><td style="font-size: 1.5em; font-weight: bold;">9</td></tr> <tr><td style="background-color: #8B008B; color: white; width: 10px;"></td><td style="font-size: 1.5em; font-weight: bold;">10</td></tr> <tr><td style="background-color: #003366; color: white; width: 10px;"></td><td style="font-size: 1.5em; font-weight: bold;">11</td></tr> </table>		1		2		3		4		5		6		7		8		9		10		11
Section 1: Sample Summary	4																																																																																																										
Section 2: Case Narrative/Conformance Summary	6																																																																																																										
Section 3: Sample Results	13																																																																																																										
3.1: T19891-1: FR-054	14																																																																																																										
3.2: T19891-2: FR-055	21																																																																																																										
3.3: T19891-3: FR-056	28																																																																																																										
3.4: T19891-4: FR-057	35																																																																																																										
3.5: T19891-5: FR-058	42																																																																																																										
3.6: T19891-5D: FR-058 MSD	49																																																																																																										
3.7: T19891-5S: FR-058 MS	50																																																																																																										
3.8: T19891-6: FR-059	51																																																																																																										
3.9: T19891-7: FR-060	58																																																																																																										
3.10: T19891-8: FR-061	65																																																																																																										
3.11: T19891-9: FR-062	72																																																																																																										
3.12: T19891-10: FR-063	79																																																																																																										
3.13: T19891-11: FR-064	87																																																																																																										
3.14: T19891-12: FR-065	97																																																																																																										
3.15: T19891-13: FR-066	107																																																																																																										
3.16: T19891-14: FR-067	115																																																																																																										
3.17: T19891-15: FR-068	122																																																																																																										
3.18: T19891-16: FR-069	129																																																																																																										
3.19: T19891-17: FR-070	136																																																																																																										
3.20: T19891-18: FR-071	143																																																																																																										
3.21: T19891-19: FR-072	150																																																																																																										
3.22: T19891-20: TRIP BLANK	158																																																																																																										
3.23: T19891-21: TRIP BLANK	160																																																																																																										
3.24: T19891-22: TRIP BLANK	162																																																																																																										
Section 4: Misc. Forms	164																																																																																																										
4.1: Chain of Custody	165																																																																																																										
4.2: LRC Form	170																																																																																																										
Section 5: GC/MS Volatiles - QC Data Summaries	174																																																																																																										
5.1: Method Blank Summary	175																																																																																																										
5.2: Blank Spike Summary	181																																																																																																										
5.3: Matrix Spike/Matrix Spike Duplicate Summary	190																																																																																																										
Section 6: GC/MS Semi-volatiles - QC Data Summaries	199																																																																																																										
6.1: Method Blank Summary	200																																																																																																										
6.2: Blank Spike Summary	206																																																																																																										
6.3: Matrix Spike/Matrix Spike Duplicate Summary	211																																																																																																										
Section 7: GC Semi-volatiles - QC Data Summaries	217																																																																																																										
7.1: Method Blank Summary	218																																																																																																										
7.2: Blank Spike Summary	221																																																																																																										
7.3: Matrix Spike/Matrix Spike Duplicate Summary	224																																																																																																										
	1																																																																																																										
	2																																																																																																										
	3																																																																																																										
	4																																																																																																										
	5																																																																																																										
	6																																																																																																										
	7																																																																																																										
	8																																																																																																										
	9																																																																																																										
	10																																																																																																										
	11																																																																																																										

Table of Contents

-2-

Section 8: Metals Analysis - QC Data Summaries	227
8.1: Prep QC MP6962: Al,Sb,As,Ba,Be,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,K,Se,Ag,Na,Tl,V,Zn .	228
8.2: Prep QC MP6970: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl, V,Zn	233
8.3: Prep QC MP6972: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na, Tl,V,Zn	238
8.4: Prep QC MP6997: Hg	243
8.5: Prep QC MP6999: Hg	247
8.6: Prep QC MP7011: Cd,Ni	251
8.7: Prep QC MP7020: Hg	256
8.8: Prep QC MP7042: Fe	260
Section 9: General Chemistry - QC Data Summaries	265
9.1: Method Blank and Spike Results Summary	266
9.2: Duplicate Results Summary	267
9.3: Matrix Spike Results Summary	268
Section 10: Misc. Forms (Accutest Laboratories Southeast, Inc.)	269
10.1: Chain of Custody	270
Section 11: General Chemistry - QC Data (Accutest Laboratories Southeast, Inc.)	272
11.1: Method Blank and Spike Results Summary	273
11.2: Duplicate Results Summary	274
11.3: Matrix Spike Results Summary	275



Accutest Laboratories

Sample Summary

KLEINFELDER

Job No: T19891

Falcon Refinery Superfund Site/Ingleside, TX

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
T19891-1	11/29/07	08:30 TW	11/30/07	SO	Soil	FR-054
T19891-2	11/29/07	08:36 TW	11/30/07	SO	Soil	FR-055
T19891-3	11/29/07	09:28 TW	11/30/07	SO	Soil	FR-056
T19891-4	11/29/07	09:30 TW	11/30/07	SO	Soil	FR-057
T19891-5	11/29/07	09:34 TW	11/30/07	SO	Soil	FR-058
T19891-5D	11/29/07	09:34 TW	11/30/07	SO	Soil Dup/MSD	FR-058 MSD
T19891-5S	11/29/07	09:34 TW	11/30/07	SO	Soil Matrix Spike	FR-058 MS
T19891-6	11/29/07	10:20 TW	11/30/07	SO	Soil	FR-059
T19891-7	11/29/07	10:20 TW	11/30/07	SO	Soil	FR-060
T19891-8	11/29/07	11:06 TW	11/30/07	SO	Soil	FR-061
T19891-9	11/29/07	11:12 TW	11/30/07	SO	Soil	FR-062
T19891-10	11/29/07	11:12 TW	11/30/07	AQ	Water	FR-063
T19891-11	11/29/07	14:05 TW	11/30/07	SO	Soil	FR-064

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Accutest Laboratories

Sample Summary

(continued)

KLEINFELDER

Job No: T19891

Falcon Refinery Superfund Site/Ingleside, TX

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
T19891-12	11/29/07	14:09 TW	11/30/07	SO	Soil	FR-065
T19891-13	11/29/07	14:35 TW	11/30/07	AQ	Water	FR-066
T19891-14	11/29/07	15:39 TW	11/30/07	SO	Soil	FR-067
T19891-15	11/29/07	15:39 TW	11/30/07	SO	Soil	FR-068
T19891-16	11/29/07	16:14 TW	11/30/07	SO	Soil	FR-069
T19891-17	11/29/07	16:17 TW	11/30/07	SO	Soil	FR-070
T19891-18	11/29/07	16:20 TW	11/30/07	SO	Soil	FR-071
T19891-19	11/29/07	16:46 TW	11/30/07	AQ	Water	FR-072
T19891-20	11/29/07	00:00 TW	11/30/07	AQ	Trip Blank Soil	TRIP BLANK
T19891-21	11/29/07	00:00 TW	11/30/07	AQ	Trip Blank Soil	TRIP BLANK
T19891-22	11/29/07	00:00 TW	11/30/07	AQ	Trip Blank Water	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: KLEINFELDER

Job No T19891

Site: Falcon Refinery Superfund Site/Ingleside, TX

Report Date 12/21/2007 12:05:15 P

21 Samples and 2 Trip Blank were collected on 11/29/2007 and were received at Accutest on 11/30/2007 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of T19891. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ	Batch ID: VF2790
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- Sample(s) T19878-19MS, T19878-19MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix SO	Batch ID: VM43
------------------	-----------------------

- All samples were analyzed within the recommended method holding time.
- Sample(s) T19891-5MS, T19891-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Vinyl Acetate are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for 1,2,3-Trichlorobenzene, Benzene, Carbon disulfide, Chloroform, cis-1,2-Dichloroethylene, Cyclohexane, Ethylbenzene, Hexachlorobutadiene, Hexane, Isopropylbenzene, m-Dichlorobenzene, n-Butylbenzene, n-Propylbenzene, o-Chlorotoluene, p-Isopropyltoluene, Styrene, tert-Butylbenzene, Tetrachloroethylene, Toluene, trans-1,2-Dichloroethylene, Trichloroethylene, Xylene (total) are outside control limits for sample T19891-5MSD. Probable cause due to sample homogeneity.

Matrix SO	Batch ID: VM44
------------------	-----------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T19984-1MS, T19984-1MSD were used as the QC samples indicated.
- RPD(s) for MSD for Vinyl Acetate are outside control limits for sample T19984-1MSD. Probable cause due to sample homogeneity.

Extractables by GCMS By Method SW846 8270C

Matrix AQ	Batch ID: OP8628
------------------	-------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) OP8628-MSMSD, T19927-10MS, T19927-10MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Hexachlorocyclopentadiene are outside control limits biased high.
- Matrix Spike Recovery(s) for 6-Methyl Chrysene are outside control limits. Probable cause due to matrix interference.

Matrix SO	Batch ID: OP8602
------------------	-------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) T19891-5MS, T19891-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Benzo(g,h,i)perylene, Benzoic acid, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene are outside control limits. COMPOUNDS OUTSIDE CONTROL LIMITS DUE TO MATRIX INTERFERENCE.
- Matrix Spike Duplicate Recovery(s) for Benzo(g,h,i)perylene, Benzoic acid, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene are outside control limits. COMPOUNDS OUTSIDE CONTROL LIMITS DUE TO MATRIX INTERFERENCE.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix AQ	Batch ID: OP8629
------------------	-------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8081A

Matrix SO	Batch ID: OP8595
------------------	-------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T19861-4MS, T19861-4MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 4,4'-DDD, 4,4'-DDE, delta-BHC, Dieldrin, Endosulfan sulfate, Endrin are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 4,4'-DDD, Endosulfan sulfate are outside control limits. Probable cause due to matrix interference.

Extractables by GC By Method SW846 8082

Matrix	SO	Batch ID:	OP8596
---------------	----	------------------	--------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) T19861-4MS, T19861-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Aroclor 1016 are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Aroclor 1016 are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- OP8596-MS: Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- OP8596-MSD: Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Extractables by GC By Method SW846 8151

Matrix	SO	Batch ID:	OP8594
---------------	----	------------------	--------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T19860-4MS, T19860-4MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 2,4,5-TP (Silvex) are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2,4,5-TP (Silvex) are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for 2,4-D are outside control limits for sample OP8594-MSD. Probable cause due to sample homogeneity.
- OP8594-BS for Dakpon: Outside control limits biased high. Since there were no detects for this compounds in the associated samples, the data is acceptable.
- T19891-11 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed by reanalysis.

Metals By Method SW846 6010B

2

Matrix AQ**Batch ID:** MP6972

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T19861-14DUP, T19861-14MS, T19861-14MSD, T19861-14SDL, T19861-14DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Manganese, Barium, Calcium, Copper, Thallium, Vanadium, Zinc are outside control limits for sample MP6972-D1. High RPD due to possible matrix interference.
- RPD(s) for Serial Dilution for Aluminum, Antimony, Arsenic, Barium, Calcium, Copper, Thallium, Vanadium, Zinc, Manganese are outside control limits for sample MP6972-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP6972-D1 for Vanadium: RPD acceptable due to low duplicate and sample concentrations.
- MP6972-D1 for Thallium: RPD acceptable due to low duplicate and sample concentrations.
- MP6972-D1 for Calcium: RPD acceptable due to low duplicate and sample concentrations.
- MP6972-D1 for Barium: RPD acceptable due to low duplicate and sample concentrations.
- MP6972-D1 for Zinc: RPD acceptable due to low duplicate and sample concentrations.
- MP6972-SD1 for Manganese: Serial dilution indicates possible matrix interference.
- MP6972-D1 for Copper: RPD acceptable due to low duplicate and sample concentrations.

Matrix SO**Batch ID:** MP6962

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T19891-5DUP, T19891-5MS, T19891-5MSD, T19891-5SDL, T19891-5DUP were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony, Manganese are outside control limits. Spike recovery indicates possible matrix interference.
- Matrix Spike Duplicate Recovery(s) for Antimony, Calcium are outside control limits. Probable cause due to matrix interference.
- RPD(s) for Duplicate for Zinc, Arsenic, Copper, Selenium are outside control limits for sample MP6962-D1. High RPD due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Arsenic, Beryllium, Cobalt, Copper, Lead, Potassium, Sodium, Vanadium are outside control limits for sample MP6962-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP6962-D1 for Copper: RPD acceptable due to low duplicate and sample concentrations.
- MP6962-D1 for Selenium: RPD acceptable due to low duplicate and sample concentrations.
- MP6962-D1 for Arsenic: RPD acceptable due to low duplicate and sample concentrations.
- MP6962-SD1 for Vanadium: Serial dilution indicates possible matrix interference.

Matrix SO**Batch ID:** MP6970

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T19907-1DUP, T19907-1MS, T19907-1MSD, T19907-1SDL, T19907-1DUP were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Antimony, Magnesium, Silver are outside control limits. Spike recovery indicates possible matrix interference.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Silver are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Recovery(s) for Calcium, Chromium, Copper, Lead, Manganese, Nickel, Zinc are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Duplicate for Antimony, Arsenic, Chromium, Copper, Lead, Nickel, Silver, Zinc, Thallium are outside control limits for sample MP6970-D1. High RPD due to possible sample nonhomogeneity.

Metals By Method SW846 6010B

Matrix	SO	Batch ID:	MP6970
---------------	----	------------------	--------

- RPD(s) for Serial Dilution for Beryllium, Thallium, Calcium, Chromium, Cobalt, Lead, Magnesium, Nickel, Potassium, Zinc are outside control limits for sample MP6970-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP6970-SD1 for Nickel: Serial dilution indicates possible matrix interference.
- MP6970-SD1 for Potassium: Serial dilution indicates possible matrix interference.
- MP6970-SD1 for Magnesium: Serial dilution indicates possible matrix interference.
- MP6970-SD1 for Lead: Serial dilution indicates possible matrix interference.
- MP6970-SD1 for Cobalt: Serial dilution indicates possible matrix interference.
- MP6970-SD1 for Chromium: Serial dilution indicates possible matrix interference.
- MP6970-SD1 for Calcium: Serial dilution indicates possible matrix interference.
- MP6970-D1 for Thallium: RPD acceptable due to low duplicate and sample concentrations.
- MP6970-SD1 for Zinc: Serial dilution indicates possible matrix interference.

Matrix	SO	Batch ID:	MP7011
---------------	----	------------------	--------

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T19891-5DUP, T19891-5MS, T19891-5MSD, T19891-5SDL, T19891-5DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Nickel are outside control limits for sample MP7011-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Nickel are outside control limits for sample MP7011-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix	SO	Batch ID:	MP7042
---------------	----	------------------	--------

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T19884-2DUP, T19884-2MS, T19884-2MSD, T19884-2SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Iron are outside control limits for sample MP7042-SD1. Probable cause due to sample homogeneity.
- MP7042-SD1 for Iron: Serial dilution indicates possible matrix interference.

Metals By Method SW846 7470A

Matrix	AQ	Batch ID:	MP6999
---------------	----	------------------	--------

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T19860-3DUP, T19860-3MS, T19860-3MSD were used as the QC samples for metals.

Metals By Method SW846 7471A

Matrix	SO	Batch ID:	MP6997
---------------	----	------------------	--------

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T19891-5MS, T19891-5MSD, T19891-5DUP were used as the QC samples for metals.
- RPD(s) for Duplicate for Mercury are outside control limits for sample MP6997-D1. RPD acceptable due to low duplicate and sample concentrations.

Matrix	SO	Batch ID:	MP7020
---------------	----	------------------	--------

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T19964-4DUP, T19964-4MS, T19964-4MSD were used as the QC samples for metals.

Wet Chemistry By Method EPA 160.3 M

Matrix	SO	Batch ID:	GN12743
---------------	----	------------------	---------

- Sample(s) T19891-4DUP were used as the QC samples for Solids, Percent.
- | | | | |
|---------------|----|------------------|---------|
| Matrix | SO | Batch ID: | GN12780 |
|---------------|----|------------------|---------|
- Sample(s) T19994-1DUP were used as the QC samples for Solids, Percent.

Wet Chemistry By Method SW846 3060A/7196A

Matrix	SO	Batch ID:	F:GN28687
---------------	----	------------------	-----------

- Chromium, Hexavalent: Analysis performed at Accutest Laboratories, Orlando, FL.

Wet Chemistry By Method SW846 7196A

Matrix	AQ	Batch ID:	GN12774
---------------	----	------------------	---------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T19897-1DUP, T19897-1MS were used as the QC samples for Chromium, Hexavalent.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest Laboratories Gulf Coast, Inc.

Job No: T19891

Site: KLETXAU: Falcon Refinery Superfund Site/Ingleside, TX

Report Date: 12/21/2007 11:30:27

16 Samples were collected on 11/29/2007 and were received at Accutest on 12/4/2007 properly preserved, at 2.0 Deg. C and intact. These Samples had an Accutest job number of T19891. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Wet Chemistry by Method SW846 3060A/7196A

Matrix: SO

Batch ID: GN28687

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples T19891-1DUP, T19891-1MS were used as the QC samples for Chromium, Hexavalent.

Matrix Spike Recovery for Chromium, Hexavalent is outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date: December 20, 2007

Ellen Pampel, Inorganic QA (signature on file)

Friday, December 21, 2007



IT'S ALL IN THE CHEMISTRY

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 2

1.1

3

Client Sample ID:	FR-054	Date Sampled:	11/29/07
Lab Sample ID:	T19891-1	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.9
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001028.D	1	12/07/07	LJ	n/a	n/a	VM43
Run #2							

	Initial Weight	Final Volume
Run #1	5.22 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0082 U	0.057	0.0082	mg/kg	
71-43-2	Benzene	0.0016 U	0.0057	0.0016	mg/kg	
108-86-1	Bromobenzene	0.0014 U	0.0057	0.0014	mg/kg	
74-97-5	Bromochloromethane	0.0016 U	0.0057	0.0016	mg/kg	
75-27-4	Bromodichloromethane	0.0016 U	0.0057	0.0016	mg/kg	
75-25-2	Bromoform	0.0014 U	0.0057	0.0014	mg/kg	
71-36-3	n-Butyl Alcohol	0.057 U	0.057	0.057	mg/kg	
104-51-8	n-Butylbenzene	0.0011 U	0.0057	0.0011	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0057	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0016 U	0.0057	0.0016	mg/kg	
75-00-3	Chloroethane	0.0016 U	0.0057	0.0016	mg/kg	
67-66-3	Chloroform	0.0014 U	0.0057	0.0014	mg/kg	
95-49-8	o-Chlorotoluene	0.0014 U	0.0057	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	0.0013 U	0.0057	0.0013	mg/kg	
75-15-0	Carbon disulfide	0.0014 U	0.011	0.0014	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0057	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0013 U	0.0057	0.0013	mg/kg	
75-34-3	1,1-Dichloroethane	0.0015 U	0.0057	0.0015	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0014 U	0.0057	0.0014	mg/kg	
563-58-6	1,1-Dichloropropene	0.0014 U	0.0057	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0016 U	0.0057	0.0016	mg/kg	
106-93-4	1,2-Dibromoethane	0.0016 U	0.0057	0.0016	mg/kg	
107-06-2	1,2-Dichloroethane	0.0016 U	0.0057	0.0016	mg/kg	
78-87-5	1,2-Dichloropropane	0.0017 U	0.0057	0.0017	mg/kg	
142-28-9	1,3-Dichloropropane	0.0016 U	0.0057	0.0016	mg/kg	
123-91-1	1,4-Dioxane	0.027 U	0.29	0.027	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0057	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0016 U	0.0057	0.0016	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0012 U	0.0057	0.0012	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0016 U	0.0057	0.0016	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0014 U	0.0057	0.0014	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0015 U	0.0057	0.0015	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

1.1

3

Client Sample ID:	FR-054	Date Sampled:	11/29/07
Lab Sample ID:	T19891-1	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.9
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
---------	----------	--------	-----	-----	-------	---

10061-02-6	trans-1,3-Dichloropropene	0.0015 U	0.0057	0.0015	mg/kg	
100-41-4	Ethylbenzene	0.0014 U	0.0057	0.0014	mg/kg	
60-29-7	Ethyl Ether	0.0057 U	0.0057	0.0057	mg/kg	
110-54-3	Hexane	0.0012 U	0.0057	0.0012	mg/kg	
591-78-6	2-Hexanone	0.0078 U	0.057	0.0078	mg/kg	
87-68-3	Hexachlorobutadiene	0.0013 U	0.0057	0.0013	mg/kg	
98-82-8	Isopropylbenzene	0.0014 U	0.0057	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	0.0014 U	0.0057	0.0014	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0080 U	0.057	0.0080	mg/kg	
74-83-9	Methyl bromide	0.0017 U	0.0057	0.0017	mg/kg	
74-87-3	Methyl chloride	0.0017 U	0.0057	0.0017	mg/kg	
74-95-3	Methylene bromide	0.0023 U	0.0057	0.0023	mg/kg	
75-09-2	Methylene chloride	0.0028 U	0.011	0.0028	mg/kg	
78-93-3	Methyl ethyl ketone	0.0077 U	0.057	0.0077	mg/kg	
103-65-1	n-Propylbenzene	0.0013 U	0.0057	0.0013	mg/kg	
100-42-5	Styrene	0.0014 U	0.0057	0.0014	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0016 U	0.0057	0.0016	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0014 U	0.0057	0.0014	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0016 U	0.0057	0.0016	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0016 U	0.0057	0.0016	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0014 U	0.0057	0.0014	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0016 U	0.0057	0.0016	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0057	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0013 U	0.0057	0.0013	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0012 U	0.0057	0.0012	mg/kg	
127-18-4	Tetrachloroethylene	0.0015 U	0.0057	0.0015	mg/kg	
108-88-3	Toluene	0.0014	0.0057	0.0014	mg/kg	J
79-01-6	Trichloroethylene	0.0015 U	0.0057	0.0015	mg/kg	
75-69-4	Trichlorofluoromethane	0.0011 U	0.0057	0.0011	mg/kg	
75-01-4	Vinyl chloride	0.0016 U	0.0057	0.0016	mg/kg	
108-05-4	Vinyl Acetate	0.0087 U	0.029	0.0087	mg/kg	
1330-20-7	Xylene (total)	0.0043 U	0.017	0.0043	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
---------	----------------------	--------	--------	--------

1868-53-7	Dibromofluoromethane	109%		68-127%
2037-26-5	Toluene-D8	125%		76-139%
460-00-4	4-Bromofluorobenzene	132%		68-167%
17060-07-0	1,2-Dichloroethane-D4	100%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

1.1

3

Client Sample ID:	FR-054	Date Sampled:	11/29/07
Lab Sample ID:	T19891-1	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.9
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24672.D	1	12/06/07	SC	12/03/07	OP8602	EA1535
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.19 U	0.19	0.19	mg/kg	
65-85-0	Benzoic acid	0.049 U	0.97	0.049	mg/kg	
95-57-8	2-Chlorophenol	0.060 U	0.19	0.060	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.044 U	0.19	0.044	mg/kg	
120-83-2	2,4-Dichlorophenol	0.066 U	0.19	0.066	mg/kg	
105-67-9	2,4-Dimethylphenol	0.062 U	0.19	0.062	mg/kg	
51-28-5	2,4-Dinitrophenol	0.066 U	0.97	0.066	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.12 U	0.39	0.12	mg/kg	
95-48-7	2-Methylphenol	0.042 U	0.19	0.042	mg/kg	
	3&4-Methylphenol	0.064 U	0.19	0.064	mg/kg	
100-02-7	4-Nitrophenol	0.077 U	0.19	0.077	mg/kg	
87-86-5	Pentachlorophenol	0.051 U	0.97	0.051	mg/kg	
108-95-2	Phenol	0.078 U	0.19	0.078	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.054 U	0.19	0.054	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.052 U	0.19	0.052	mg/kg	
83-32-9	Acenaphthene	0.047 U	0.19	0.047	mg/kg	
208-96-8	Acenaphthylene	0.052 U	0.19	0.052	mg/kg	
120-12-7	Anthracene	0.063 U	0.19	0.063	mg/kg	
56-55-3	Benzo(a)anthracene	0.072 U	0.19	0.072	mg/kg	
50-32-8	Benzo(a)pyrene	0.063 U	0.19	0.063	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.082 U	0.19	0.082	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.19	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.089 U	0.19	0.089	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.074 U	0.19	0.074	mg/kg	
85-68-7	Butyl benzyl phthalate	0.093 U	0.19	0.093	mg/kg	
100-51-6	Benzyl Alcohol	0.069 U	0.19	0.069	mg/kg	
91-58-7	2-Chloronaphthalene	0.054 U	0.19	0.054	mg/kg	
106-47-8	4-Chloroaniline	0.055 U	0.19	0.055	mg/kg	
86-74-8	Carbazole	0.084 U	0.19	0.084	mg/kg	
218-01-9	Chrysene	0.064 U	0.19	0.064	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.073 U	0.19	0.073	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.042 U	0.19	0.042	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

1.1

3

Client Sample ID:	FR-054	Date Sampled:	11/29/07
Lab Sample ID:	T19891-1	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.9
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.059 U	0.19	0.059	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.066 U	0.19	0.066	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.060 U	0.19	0.060	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.054 U	0.19	0.054	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.085 U	0.19	0.085	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.050 U	0.19	0.050	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.079 U	0.39	0.079	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.19 U	0.19	0.19	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.19 U	0.19	0.19	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.068 U	0.19	0.068	mg/kg	
132-64-9	Dibenzofuran	0.054 U	0.19	0.054	mg/kg	
122-39-4	Diphenylamine	0.085 U	0.19	0.085	mg/kg	
84-74-2	Di-n-butyl phthalate	0.095 U	0.19	0.095	mg/kg	
117-84-0	Di-n-octyl phthalate	0.18 U	0.19	0.18	mg/kg	
84-66-2	Diethyl phthalate	0.054 U	0.19	0.054	mg/kg	
131-11-3	Dimethyl phthalate	0.048 U	0.19	0.048	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.097 U	0.19	0.097	mg/kg	
206-44-0	Fluoranthene	0.087 U	0.19	0.087	mg/kg	
86-73-7	Fluorene	0.059 U	0.19	0.059	mg/kg	
118-74-1	Hexachlorobenzene	0.064 U	0.19	0.064	mg/kg	
87-68-3	Hexachlorobutadiene	0.059 U	0.19	0.059	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.070 U	0.19	0.070	mg/kg	
67-72-1	Hexachloroethane	0.057 U	0.19	0.057	mg/kg	
95-13-6	Indene	0.97 U	0.97	0.97	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.075 U	0.19	0.075	mg/kg	
78-59-1	Isophorone	0.051 U	0.19	0.051	mg/kg	
90-12-0	1-Methylnaphthalene	0.046 U	0.19	0.046	mg/kg	
91-57-6	2-Methylnaphthalene	0.052 U	0.19	0.052	mg/kg	
	6-Methyl Chrysene	0.19 U	0.19	0.19	mg/kg	
88-74-4	2-Nitroaniline	0.051 U	0.19	0.051	mg/kg	
99-09-2	3-Nitroaniline	0.073 U	0.19	0.073	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.19	0.11	mg/kg	
91-20-3	Naphthalene	0.047 U	0.19	0.047	mg/kg	
98-95-3	Nitrobenzene	0.054 U	0.19	0.054	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.078 U	0.19	0.078	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.085 U	0.19	0.085	mg/kg	
85-01-8	Phenanthrene	0.072 U	0.19	0.072	mg/kg	
129-00-0	Pyrene	0.095 U	0.19	0.095	mg/kg	
91-22-5	Quinoline	0.19 U	0.19	0.19	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.051 U	0.19	0.051	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

1.3
3

Client Sample ID:	FR-054	Date Sampled:	11/29/07
Lab Sample ID:	T19891-1	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.9
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.19 U	0.19	0.19	mg/kg	
	1,2-Cyclohexanediol	0.19 U	0.19	0.19	mg/kg	
98-85-1	1-Phenylethanol	0.19 U	0.19	0.19	mg/kg	
CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits						
367-12-4	2-Fluorophenol	72%			26-124%	
4165-62-2	Phenol-d5	74%			19-106%	
118-79-6	2,4,6-Tribromophenol	92%			18-129%	
4165-60-0	Nitrobenzene-d5	77%			18-104%	
321-60-8	2-Fluorobiphenyl	83%			21-114%	
1718-51-0	Terphenyl-d14	107%			24-149%	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.1

3

Client Sample ID:	FR-054	Date Sampled:	11/29/07
Lab Sample ID:	T19891-1	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.9
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	8090	22	4.8	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Antimony	0.30 U	1.1	0.30	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	1.7	1.1	0.22	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Barium	66.6	22	0.066	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	0.23 B	0.55	0.022	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	0.12 U	0.59	0.12	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Calcium	13400	550	1.9	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	6.9	1.1	0.077	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	1.8 B	5.5	0.20	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Copper	3.6	2.8	0.14	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Iron	4900	11	2.5	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Lead	9.9	1.1	0.44	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Magnesium	2840	550	1.3	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Manganese	141	1.7	0.077	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.012 B	0.019	0.00074	mg/kg	1	12/08/07	12/08/07 NS	SW846 7471A ²	SW846 7471A ⁵
Nickel	3.3 B	4.7	0.15	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Potassium	1870	550	34	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	0.27 U	1.1	0.27	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Silver	0.088 U	1.1	0.088	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Sodium	3070	550	30	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Thallium	0.55 U	2.2	0.55	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	9.6	5.5	0.13	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	44.1	2.2	0.44	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA3252
- (2) Instrument QC Batch: MA3262
- (3) Instrument QC Batch: MA3269
- (4) Prep QC Batch: MP6962
- (5) Prep QC Batch: MP6997
- (6) Prep QC Batch: MP7011

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

3.1

3

Client Sample ID:	FR-054	Date Sampled:	11/29/07
Lab Sample ID:	T19891-1	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.9
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.8 B	2.0	1.0	mg/kg	1	12/18/07	AFL	SW846 3060A/7196A
Solids, Percent	83.9			%	1	12/04/07 16:35	SS	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

32
3

Client Sample ID:	FR-055	Date Sampled:	11/29/07
Lab Sample ID:	T19891-2	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	85.7
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001029.D	1	12/07/07	LJ	n/a	n/a	VM43
Run #2							

	Initial Weight	Final Volume
Run #1	5.28 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0675	0.055	0.0079	mg/kg	
71-43-2	Benzene	0.0015 U	0.0055	0.0015	mg/kg	
108-86-1	Bromobenzene	0.0014 U	0.0055	0.0014	mg/kg	
74-97-5	Bromochloromethane	0.0016 U	0.0055	0.0016	mg/kg	
75-27-4	Bromodichloromethane	0.0016 U	0.0055	0.0016	mg/kg	
75-25-2	Bromoform	0.0013 U	0.0055	0.0013	mg/kg	
71-36-3	n-Butyl Alcohol	0.055 U	0.055	0.055	mg/kg	
104-51-8	n-Butylbenzene	0.0011 U	0.0055	0.0011	mg/kg	
98-06-6	tert-Butylbenzene	0.0011 U	0.0055	0.0011	mg/kg	
108-90-7	Chlorobenzene	0.0015 U	0.0055	0.0015	mg/kg	
75-00-3	Chloroethane	0.0016 U	0.0055	0.0016	mg/kg	
67-66-3	Chloroform	0.0014 U	0.0055	0.0014	mg/kg	
95-49-8	o-Chlorotoluene	0.0013 U	0.0055	0.0013	mg/kg	
106-43-4	p-Chlorotoluene	0.0012 U	0.0055	0.0012	mg/kg	
75-15-0	Carbon disulfide	0.0014 U	0.011	0.0014	mg/kg	
56-23-5	Carbon tetrachloride	0.0012 U	0.0055	0.0012	mg/kg	
110-82-7	Cyclohexane	0.0013 U	0.0055	0.0013	mg/kg	
75-34-3	1,1-Dichloroethane	0.0014 U	0.0055	0.0014	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0014 U	0.0055	0.0014	mg/kg	
563-58-6	1,1-Dichloropropene	0.0013 U	0.0055	0.0013	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0016 U	0.0055	0.0016	mg/kg	
106-93-4	1,2-Dibromoethane	0.0015 U	0.0055	0.0015	mg/kg	
107-06-2	1,2-Dichloroethane	0.0015 U	0.0055	0.0015	mg/kg	
78-87-5	1,2-Dichloropropane	0.0016 U	0.0055	0.0016	mg/kg	
142-28-9	1,3-Dichloropropane	0.0016 U	0.0055	0.0016	mg/kg	
123-91-1	1,4-Dioxane	0.026 U	0.28	0.026	mg/kg	
594-20-7	2,2-Dichloropropane	0.0012 U	0.0055	0.0012	mg/kg	
124-48-1	Dibromochloromethane	0.0015 U	0.0055	0.0015	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0012 U	0.0055	0.0012	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0015 U	0.0055	0.0015	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0014 U	0.0055	0.0014	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0014 U	0.0055	0.0014	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

32

3

Client Sample ID:	FR-055	Date Sampled:	11/29/07
Lab Sample ID:	T19891-2	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	85.7
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0015 U	0.0055	0.0015	mg/kg	
100-41-4	Ethylbenzene	0.0014 U	0.0055	0.0014	mg/kg	
60-29-7	Ethyl Ether	0.0055 U	0.0055	0.0055	mg/kg	
110-54-3	Hexane	0.0012 U	0.0055	0.0012	mg/kg	
591-78-6	2-Hexanone	0.0076 U	0.055	0.0076	mg/kg	
87-68-3	Hexachlorobutadiene	0.0013 U	0.0055	0.0013	mg/kg	
98-82-8	Isopropylbenzene	0.0013 U	0.0055	0.0013	mg/kg	
99-87-6	p-Isopropyltoluene	0.0013 U	0.0055	0.0013	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0077 U	0.055	0.0077	mg/kg	
74-83-9	Methyl bromide	0.0017 U	0.0055	0.0017	mg/kg	
74-87-3	Methyl chloride	0.0016 U	0.0055	0.0016	mg/kg	
74-95-3	Methylene bromide	0.0022 U	0.0055	0.0022	mg/kg	
75-09-2	Methylene chloride	0.0027 U	0.011	0.0027	mg/kg	
78-93-3	Methyl ethyl ketone	0.0074 U	0.055	0.0074	mg/kg	
103-65-1	n-Propylbenzene	0.0012 U	0.0055	0.0012	mg/kg	
100-42-5	Styrene	0.0014 U	0.0055	0.0014	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0015 U	0.0055	0.0015	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0013 U	0.0055	0.0013	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0016 U	0.0055	0.0016	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0015 U	0.0055	0.0015	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0013 U	0.0055	0.0013	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0015 U	0.0055	0.0015	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0011 U	0.0055	0.0011	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0012 U	0.0055	0.0012	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0012 U	0.0055	0.0012	mg/kg	
127-18-4	Tetrachloroethylene	0.0015 U	0.0055	0.0015	mg/kg	
108-88-3	Toluene	0.0014 U	0.0055	0.0014	mg/kg	
79-01-6	Trichloroethylene	0.0014 U	0.0055	0.0014	mg/kg	
75-69-4	Trichlorofluoromethane	0.0011 U	0.0055	0.0011	mg/kg	
75-01-4	Vinyl chloride	0.0015 U	0.0055	0.0015	mg/kg	
108-05-4	Vinyl Acetate	0.0084 U	0.028	0.0084	mg/kg	
1330-20-7	Xylene (total)	0.0042 U	0.017	0.0042	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		68-127%
2037-26-5	Toluene-D8	121%		76-139%
460-00-4	4-Bromofluorobenzene	115%		68-167%
17060-07-0	1,2-Dichloroethane-D4	98%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

32

3

Client Sample ID:	FR-055	Date Sampled:	11/29/07
Lab Sample ID:	T19891-2	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	85.7
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24673.D	1	12/06/07	SC	12/03/07	OP8602	EA1535
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.19 U	0.19	0.19	mg/kg	
65-85-0	Benzoic acid	0.048 U	0.96	0.048	mg/kg	
95-57-8	2-Chlorophenol	0.059 U	0.19	0.059	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.044 U	0.19	0.044	mg/kg	
120-83-2	2,4-Dichlorophenol	0.065 U	0.19	0.065	mg/kg	
105-67-9	2,4-Dimethylphenol	0.061 U	0.19	0.061	mg/kg	
51-28-5	2,4-Dinitrophenol	0.065 U	0.96	0.065	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.12 U	0.38	0.12	mg/kg	
95-48-7	2-Methylphenol	0.042 U	0.19	0.042	mg/kg	
	3&4-Methylphenol	0.063 U	0.19	0.063	mg/kg	
100-02-7	4-Nitrophenol	0.075 U	0.19	0.075	mg/kg	
87-86-5	Pentachlorophenol	0.051 U	0.96	0.051	mg/kg	
108-95-2	Phenol	0.077 U	0.19	0.077	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.054 U	0.19	0.054	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.051 U	0.19	0.051	mg/kg	
83-32-9	Acenaphthene	0.147	0.19	0.046	mg/kg	J
208-96-8	Acenaphthylene	0.052 U	0.19	0.052	mg/kg	
120-12-7	Anthracene	0.0735	0.19	0.062	mg/kg	J
56-55-3	Benzo(a)anthracene	0.071 U	0.19	0.071	mg/kg	
50-32-8	Benzo(a)pyrene	0.062 U	0.19	0.062	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.081 U	0.19	0.081	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.19	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.088 U	0.19	0.088	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.073 U	0.19	0.073	mg/kg	
85-68-7	Butyl benzyl phthalate	0.092 U	0.19	0.092	mg/kg	
100-51-6	Benzyl Alcohol	0.068 U	0.19	0.068	mg/kg	
91-58-7	2-Chloronaphthalene	0.053 U	0.19	0.053	mg/kg	
106-47-8	4-Chloroaniline	0.054 U	0.19	0.054	mg/kg	
86-74-8	Carbazole	0.129	0.19	0.082	mg/kg	J
218-01-9	Chrysene	0.0901	0.19	0.063	mg/kg	J
111-91-1	bis(2-Chloroethoxy)methane	0.072 U	0.19	0.072	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.041 U	0.19	0.041	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-055	Date Sampled:	11/29/07
Lab Sample ID:	T19891-2	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	85.7
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.059 U	0.19	0.059	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.065 U	0.19	0.065	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.059 U	0.19	0.059	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.053 U	0.19	0.053	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.084 U	0.19	0.084	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.049 U	0.19	0.049	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.078 U	0.38	0.078	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.19 U	0.19	0.19	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.19 U	0.19	0.19	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.067 U	0.19	0.067	mg/kg	
132-64-9	Dibenzofuran	0.0902	0.19	0.053	mg/kg	J
122-39-4	Diphenylamine	0.084 U	0.19	0.084	mg/kg	
84-74-2	Di-n-butyl phthalate	0.094 U	0.19	0.094	mg/kg	
117-84-0	Di-n-octyl phthalate	0.18 U	0.19	0.18	mg/kg	
84-66-2	Diethyl phthalate	0.053 U	0.19	0.053	mg/kg	
131-11-3	Dimethyl phthalate	0.048 U	0.19	0.048	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.095 U	0.19	0.095	mg/kg	
206-44-0	Fluoranthene	0.086 U	0.19	0.086	mg/kg	
86-73-7	Fluorene	0.0964	0.19	0.058	mg/kg	J
118-74-1	Hexachlorobenzene	0.063 U	0.19	0.063	mg/kg	
87-68-3	Hexachlorobutadiene	0.058 U	0.19	0.058	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.069 U	0.19	0.069	mg/kg	
67-72-1	Hexachloroethane	0.056 U	0.19	0.056	mg/kg	
95-13-6	Indene	0.96 U	0.96	0.96	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.074 U	0.19	0.074	mg/kg	
78-59-1	Isophorone	0.050 U	0.19	0.050	mg/kg	
90-12-0	1-Methylnaphthalene	0.046 U	0.19	0.046	mg/kg	
91-57-6	2-Methylnaphthalene	0.051 U	0.19	0.051	mg/kg	
	6-Methyl Chrysene	0.19 U	0.19	0.19	mg/kg	
88-74-4	2-Nitroaniline	0.050 U	0.19	0.050	mg/kg	
99-09-2	3-Nitroaniline	0.072 U	0.19	0.072	mg/kg	
100-01-6	4-Nitroaniline	0.10 U	0.19	0.10	mg/kg	
91-20-3	Naphthalene	0.046 U	0.19	0.046	mg/kg	
98-95-3	Nitrobenzene	0.054 U	0.19	0.054	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.077 U	0.19	0.077	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.084 U	0.19	0.084	mg/kg	
85-01-8	Phenanthrene	0.150	0.19	0.071	mg/kg	J
129-00-0	Pyrene	0.093 U	0.19	0.093	mg/kg	
91-22-5	Quinoline	0.19 U	0.19	0.19	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.050 U	0.19	0.050	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

32

3

Client Sample ID:	FR-055	Date Sampled:	11/29/07
Lab Sample ID:	T19891-2	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	85.7
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.19 U	0.19	0.19	mg/kg	
	1,2-Cyclohexanediol	0.19 U	0.19	0.19	mg/kg	
98-85-1	1-Phenylethanol	0.19 U	0.19	0.19	mg/kg	
CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits						
367-12-4	2-Fluorophenol	41%			26-124%	
4165-62-2	Phenol-d5	45%			19-106%	
118-79-6	2,4,6-Tribromophenol	58%			18-129%	
4165-60-0	Nitrobenzene-d5	45%			18-104%	
321-60-8	2-Fluorobiphenyl	52%			21-114%	
1718-51-0	Terphenyl-d14	68%			24-149%	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

32

3

Client Sample ID:	FR-055	Date Sampled:	11/29/07
Lab Sample ID:	T19891-2	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	85.7
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4180	21	4.7	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Antimony	0.29 U	1.1	0.29	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	1.4	1.1	0.21	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Barium	41.8	21	0.064	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	0.10 B	0.54	0.021	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	0.12 U	0.58	0.12	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Calcium	14600	540	1.8	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	3.5	1.1	0.075	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	1.2 B	5.4	0.19	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Copper	2.4 B	2.7	0.14	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Iron	2590	11	2.4	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Lead	3.6	1.1	0.43	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Magnesium	1520	540	1.2	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Manganese	130	1.6	0.075	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.0077 B	0.018	0.000070	mg/kg	1	12/08/07	12/08/07 NS	SW846 7471A ²	SW846 7471A ⁵
Nickel	2.6 B	4.6	0.15	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Potassium	834	540	33	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	0.26 U	1.1	0.26	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Silver	0.086 U	1.1	0.086	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Sodium	375 B	540	29	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Thallium	0.54 U	2.1	0.54	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	6.7	5.4	0.13	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	11.0	2.1	0.43	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA3252
- (2) Instrument QC Batch: MA3262
- (3) Instrument QC Batch: MA3269
- (4) Prep QC Batch: MP6962
- (5) Prep QC Batch: MP6997
- (6) Prep QC Batch: MP7011

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

32

3

Client Sample ID:	FR-055	Date Sampled:	11/29/07
Lab Sample ID:	T19891-2	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	85.7
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.0 U	2.0	1.0	mg/kg	1	12/18/07	AFL	SW846 3060A/7196A
Solids, Percent	85.7			%	1	12/04/07 16:35	SS	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

33

3

Client Sample ID:	FR-056	Date Sampled:	11/29/07
Lab Sample ID:	T19891-3	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	82.6
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001030.D	1	12/07/07	LJ	n/a	n/a	VM43
Run #2							

	Initial Weight	Final Volume
Run #1	5.23 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0083 U	0.058	0.0083	mg/kg	
71-43-2	Benzene	0.0016 U	0.0058	0.0016	mg/kg	
108-86-1	Bromobenzene	0.0015 U	0.0058	0.0015	mg/kg	
74-97-5	Bromochloromethane	0.0017 U	0.0058	0.0017	mg/kg	
75-27-4	Bromodichloromethane	0.0016 U	0.0058	0.0016	mg/kg	
75-25-2	Bromoform	0.0014 U	0.0058	0.0014	mg/kg	
71-36-3	n-Butyl Alcohol	0.058 U	0.058	0.058	mg/kg	
104-51-8	n-Butylbenzene	0.0011 U	0.0058	0.0011	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0058	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0016 U	0.0058	0.0016	mg/kg	
75-00-3	Chloroethane	0.0016 U	0.0058	0.0016	mg/kg	
67-66-3	Chloroform	0.0014 U	0.0058	0.0014	mg/kg	
95-49-8	o-Chlorotoluene	0.0014 U	0.0058	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	0.0013 U	0.0058	0.0013	mg/kg	
75-15-0	Carbon disulfide	0.0015 U	0.012	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0058	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0013 U	0.0058	0.0013	mg/kg	
75-34-3	1,1-Dichloroethane	0.0015 U	0.0058	0.0015	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0015 U	0.0058	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	0.0014 U	0.0058	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0016 U	0.0058	0.0016	mg/kg	
106-93-4	1,2-Dibromoethane	0.0016 U	0.0058	0.0016	mg/kg	
107-06-2	1,2-Dichloroethane	0.0016 U	0.0058	0.0016	mg/kg	
78-87-5	1,2-Dichloropropane	0.0017 U	0.0058	0.0017	mg/kg	
142-28-9	1,3-Dichloropropane	0.0017 U	0.0058	0.0017	mg/kg	
123-91-1	1,4-Dioxane	0.028 U	0.29	0.028	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0058	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0016 U	0.0058	0.0016	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0012 U	0.0058	0.0012	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0016 U	0.0058	0.0016	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0015 U	0.0058	0.0015	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0015 U	0.0058	0.0015	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

33

3

Client Sample ID:	FR-056	Date Sampled:	11/29/07
Lab Sample ID:	T19891-3	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	82.6
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0016 U	0.0058	0.0016	mg/kg	
100-41-4	Ethylbenzene	0.0015 U	0.0058	0.0015	mg/kg	
60-29-7	Ethyl Ether	0.0058 U	0.0058	0.0058	mg/kg	
110-54-3	Hexane	0.0012 U	0.0058	0.0012	mg/kg	
591-78-6	2-Hexanone	0.0079 U	0.058	0.0079	mg/kg	
87-68-3	Hexachlorobutadiene	0.0014 U	0.0058	0.0014	mg/kg	
98-82-8	Isopropylbenzene	0.0014 U	0.0058	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	0.0014 U	0.0058	0.0014	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0081 U	0.058	0.0081	mg/kg	
74-83-9	Methyl bromide	0.0017 U	0.0058	0.0017	mg/kg	
74-87-3	Methyl chloride	0.0017 U	0.0058	0.0017	mg/kg	
74-95-3	Methylene bromide	0.0023 U	0.0058	0.0023	mg/kg	
75-09-2	Methylene chloride	0.0028 U	0.012	0.0028	mg/kg	
78-93-3	Methyl ethyl ketone	0.0078 U	0.058	0.0078	mg/kg	
103-65-1	n-Propylbenzene	0.0013 U	0.0058	0.0013	mg/kg	
100-42-5	Styrene	0.0015 U	0.0058	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0016 U	0.0058	0.0016	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0014 U	0.0058	0.0014	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0017 U	0.0058	0.0017	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0016 U	0.0058	0.0016	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0014 U	0.0058	0.0014	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0016 U	0.0058	0.0016	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0058	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0024	0.0058	0.0013	mg/kg	J
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0058	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0015 U	0.0058	0.0015	mg/kg	
108-88-3	Toluene	0.0015 U	0.0058	0.0015	mg/kg	
79-01-6	Trichloroethylene	0.0015 U	0.0058	0.0015	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0058	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0016 U	0.0058	0.0016	mg/kg	
108-05-4	Vinyl Acetate	0.0088 U	0.029	0.0088	mg/kg	
1330-20-7	Xylene (total)	0.0063	0.017	0.0044	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		68-127%
2037-26-5	Toluene-D8	129%		76-139%
460-00-4	4-Bromofluorobenzene	140%		68-167%
17060-07-0	1,2-Dichloroethane-D4	102%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

33

3

Client Sample ID:	FR-056	Date Sampled:	11/29/07
Lab Sample ID:	T19891-3	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	82.6
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24674.D	1	12/06/07	SC	12/03/07	OP8602	EA1535
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.20 U	0.20	0.20	mg/kg	
65-85-0	Benzoic acid	0.049 U	0.98	0.049	mg/kg	
95-57-8	2-Chlorophenol	0.060 U	0.20	0.060	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.045 U	0.20	0.045	mg/kg	
120-83-2	2,4-Dichlorophenol	0.066 U	0.20	0.066	mg/kg	
105-67-9	2,4-Dimethylphenol	0.062 U	0.20	0.062	mg/kg	
51-28-5	2,4-Dinitrophenol	0.066 U	0.98	0.066	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.12 U	0.39	0.12	mg/kg	
95-48-7	2-Methylphenol	0.043 U	0.20	0.043	mg/kg	
	3&4-Methylphenol	0.064 U	0.20	0.064	mg/kg	
100-02-7	4-Nitrophenol	0.077 U	0.20	0.077	mg/kg	
87-86-5	Pentachlorophenol	0.052 U	0.98	0.052	mg/kg	
108-95-2	Phenol	0.079 U	0.20	0.079	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.055 U	0.20	0.055	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.053 U	0.20	0.053	mg/kg	
83-32-9	Acenaphthene	0.047 U	0.20	0.047	mg/kg	
208-96-8	Acenaphthylene	0.053 U	0.20	0.053	mg/kg	
120-12-7	Anthracene	0.064 U	0.20	0.064	mg/kg	
56-55-3	Benzo(a)anthracene	0.073 U	0.20	0.073	mg/kg	
50-32-8	Benzo(a)pyrene	0.064 U	0.20	0.064	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.083 U	0.20	0.083	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.20	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.090 U	0.20	0.090	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.075 U	0.20	0.075	mg/kg	
85-68-7	Butyl benzyl phthalate	0.094 U	0.20	0.094	mg/kg	
100-51-6	Benzyl Alcohol	0.069 U	0.20	0.069	mg/kg	
91-58-7	2-Chloronaphthalene	0.055 U	0.20	0.055	mg/kg	
106-47-8	4-Chloroaniline	0.055 U	0.20	0.055	mg/kg	
86-74-8	Carbazole	0.084 U	0.20	0.084	mg/kg	
218-01-9	Chrysene	0.064 U	0.20	0.064	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.073 U	0.20	0.073	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.042 U	0.20	0.042	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

33

3

Client Sample ID:	FR-056	Date Sampled:	11/29/07
Lab Sample ID:	T19891-3	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	82.6
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.060 U	0.20	0.060	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.067 U	0.20	0.067	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.061 U	0.20	0.061	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.055 U	0.20	0.055	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.086 U	0.20	0.086	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.051 U	0.20	0.051	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.080 U	0.39	0.080	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.20 U	0.20	0.20	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.20 U	0.20	0.20	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.068 U	0.20	0.068	mg/kg	
132-64-9	Dibenzofuran	0.054 U	0.20	0.054	mg/kg	
122-39-4	Diphenylamine	0.086 U	0.20	0.086	mg/kg	
84-74-2	Di-n-butyl phthalate	0.096 U	0.20	0.096	mg/kg	
117-84-0	Di-n-octyl phthalate	0.18 U	0.20	0.18	mg/kg	
84-66-2	Diethyl phthalate	0.055 U	0.20	0.055	mg/kg	
131-11-3	Dimethyl phthalate	0.049 U	0.20	0.049	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.098 U	0.20	0.098	mg/kg	
206-44-0	Fluoranthene	0.088 U	0.20	0.088	mg/kg	
86-73-7	Fluorene	0.060 U	0.20	0.060	mg/kg	
118-74-1	Hexachlorobenzene	0.064 U	0.20	0.064	mg/kg	
87-68-3	Hexachlorobutadiene	0.060 U	0.20	0.060	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.071 U	0.20	0.071	mg/kg	
67-72-1	Hexachloroethane	0.058 U	0.20	0.058	mg/kg	
95-13-6	Indene	0.98 U	0.98	0.98	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.076 U	0.20	0.076	mg/kg	
78-59-1	Isophorone	0.051 U	0.20	0.051	mg/kg	
90-12-0	1-Methylnaphthalene	0.047 U	0.20	0.047	mg/kg	
91-57-6	2-Methylnaphthalene	0.052 U	0.20	0.052	mg/kg	
	6-Methyl Chrysene	0.20 U	0.20	0.20	mg/kg	
88-74-4	2-Nitroaniline	0.051 U	0.20	0.051	mg/kg	
99-09-2	3-Nitroaniline	0.073 U	0.20	0.073	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.20	0.11	mg/kg	
91-20-3	Naphthalene	0.047 U	0.20	0.047	mg/kg	
98-95-3	Nitrobenzene	0.055 U	0.20	0.055	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.079 U	0.20	0.079	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.086 U	0.20	0.086	mg/kg	
85-01-8	Phenanthrene	0.073 U	0.20	0.073	mg/kg	
129-00-0	Pyrene	0.096 U	0.20	0.096	mg/kg	
91-22-5	Quinoline	0.20 U	0.20	0.20	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.051 U	0.20	0.051	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

33

33

Client Sample ID:	FR-056	Date Sampled:	11/29/07
Lab Sample ID:	T19891-3	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	82.6
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.20 U	0.20	0.20	mg/kg	
	1,2-Cyclohexanediol	0.20 U	0.20	0.20	mg/kg	
98-85-1	1-Phenylethanol	0.20 U	0.20	0.20	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		26-124%
4165-62-2	Phenol-d5	56%		19-106%
118-79-6	2,4,6-Tribromophenol	74%		18-129%
4165-60-0	Nitrobenzene-d5	58%		18-104%
321-60-8	2-Fluorobiphenyl	63%		21-114%
1718-51-0	Terphenyl-d14	77%		24-149%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

33

3

Client Sample ID:	FR-056	Date Sampled:	11/29/07
Lab Sample ID:	T19891-3	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	82.6
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6110	23	5.0	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Antimony	0.31 U	1.1	0.31	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	0.97 B	1.1	0.23	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Barium	62.9	23	0.069	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	0.16 B	0.57	0.023	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	0.11 U	0.53	0.11	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Calcium	18800	570	2.0	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	5.5	1.1	0.080	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	1.7 B	5.7	0.21	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Copper	3.7	2.9	0.15	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Iron	3870	11	2.6	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Lead	24.5	1.1	0.46	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Magnesium	2290	570	1.3	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Manganese	130	1.7	0.080	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.028	0.020	0.00079	mg/kg	1	12/08/07	12/08/07 NS	SW846 7471A ²	SW846 7471A ⁵
Nickel	4.0 B	4.2	0.14	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Potassium	1430	570	36	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	0.28 U	1.1	0.28	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Silver	0.092 U	1.1	0.092	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Sodium	392 B	570	31	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Thallium	0.57 U	2.3	0.57	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	7.4	5.7	0.14	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	41.0	2.3	0.46	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA3252
- (2) Instrument QC Batch: MA3262
- (3) Instrument QC Batch: MA3269
- (4) Prep QC Batch: MP6962
- (5) Prep QC Batch: MP6997
- (6) Prep QC Batch: MP7011

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

33

3

Client Sample ID:	FR-056	Date Sampled:	11/29/07
Lab Sample ID:	T19891-3	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	82.6
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.0 U	2.0	1.0	mg/kg	1	12/18/07	AFL	SW846 3060A/7196A
Solids, Percent	82.6			%	1	12/04/07 16:35	SS	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

34

3

Client Sample ID:	FR-057	Date Sampled:	11/29/07
Lab Sample ID:	T19891-4	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.0
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001031.D	1	12/07/07	LJ	n/a	n/a	VM43
Run #2							

	Initial Weight	Final Volume
Run #1	5.25 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0086 U	0.060	0.0086	mg/kg	
71-43-2	Benzene	0.0017 U	0.0060	0.0017	mg/kg	
108-86-1	Bromobenzene	0.0015 U	0.0060	0.0015	mg/kg	
74-97-5	Bromochloromethane	0.0017 U	0.0060	0.0017	mg/kg	
75-27-4	Bromodichloromethane	0.0017 U	0.0060	0.0017	mg/kg	
75-25-2	Bromoform	0.0015 U	0.0060	0.0015	mg/kg	
71-36-3	n-Butyl Alcohol	0.060 U	0.060	0.060	mg/kg	
104-51-8	n-Butylbenzene	0.0012 U	0.0060	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0060	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0017 U	0.0060	0.0017	mg/kg	
75-00-3	Chloroethane	0.0017 U	0.0060	0.0017	mg/kg	
67-66-3	Chloroform	0.0015 U	0.0060	0.0015	mg/kg	
95-49-8	o-Chlorotoluene	0.0014 U	0.0060	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	0.0013 U	0.0060	0.0013	mg/kg	
75-15-0	Carbon disulfide	0.0015 U	0.012	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0060	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0014 U	0.0060	0.0014	mg/kg	
75-34-3	1,1-Dichloroethane	0.0015 U	0.0060	0.0015	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0015 U	0.0060	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	0.0014 U	0.0060	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0017 U	0.0060	0.0017	mg/kg	
106-93-4	1,2-Dibromoethane	0.0017 U	0.0060	0.0017	mg/kg	
107-06-2	1,2-Dichloroethane	0.0016 U	0.0060	0.0016	mg/kg	
78-87-5	1,2-Dichloropropane	0.0017 U	0.0060	0.0017	mg/kg	
142-28-9	1,3-Dichloropropane	0.0017 U	0.0060	0.0017	mg/kg	
123-91-1	1,4-Dioxane	0.029 U	0.30	0.029	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0060	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0016 U	0.0060	0.0016	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0013 U	0.0060	0.0013	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0016 U	0.0060	0.0016	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0015 U	0.0060	0.0015	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0016 U	0.0060	0.0016	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3
4

3

Client Sample ID:	FR-057	Date Sampled:	11/29/07
Lab Sample ID:	T19891-4	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.0
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0016 U	0.0060	0.0016	mg/kg	
100-41-4	Ethylbenzene	0.0015 U	0.0060	0.0015	mg/kg	
60-29-7	Ethyl Ether	0.0060 U	0.0060	0.0060	mg/kg	
110-54-3	Hexane	0.0013 U	0.0060	0.0013	mg/kg	
591-78-6	2-Hexanone	0.0081 U	0.060	0.0081	mg/kg	
87-68-3	Hexachlorobutadiene	0.0014 U	0.0060	0.0014	mg/kg	
98-82-8	Isopropylbenzene	0.0033	0.0060	0.0014	mg/kg	J
99-87-6	p-Isopropyltoluene	0.0014 U	0.0060	0.0014	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0083 U	0.060	0.0083	mg/kg	
74-83-9	Methyl bromide	0.0018 U	0.0060	0.0018	mg/kg	
74-87-3	Methyl chloride	0.0017 U	0.0060	0.0017	mg/kg	
74-95-3	Methylene bromide	0.0024 U	0.0060	0.0024	mg/kg	
75-09-2	Methylene chloride	0.0029 U	0.012	0.0029	mg/kg	
78-93-3	Methyl ethyl ketone	0.0080 U	0.060	0.0080	mg/kg	
103-65-1	n-Propylbenzene	0.0013 U	0.0060	0.0013	mg/kg	
100-42-5	Styrene	0.0015 U	0.0060	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0017 U	0.0060	0.0017	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0014 U	0.0060	0.0014	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0017 U	0.0060	0.0017	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0016 U	0.0060	0.0016	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0014 U	0.0060	0.0014	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0017 U	0.0060	0.0017	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0060	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0015	0.0060	0.0013	mg/kg	J
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0060	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0016 U	0.0060	0.0016	mg/kg	
108-88-3	Toluene	0.0015 U	0.0060	0.0015	mg/kg	
79-01-6	Trichloroethylene	0.0015 U	0.0060	0.0015	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0060	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0016 U	0.0060	0.0016	mg/kg	
108-05-4	Vinyl Acetate	0.0090 U	0.030	0.0090	mg/kg	
1330-20-7	Xylene (total)	0.0049	0.018	0.0045	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		68-127%
2037-26-5	Toluene-D8	129%		76-139%
460-00-4	4-Bromofluorobenzene	150%		68-167%
17060-07-0	1,2-Dichloroethane-D4	101%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

34

3

Client Sample ID:	FR-057	Date Sampled:	11/29/07
Lab Sample ID:	T19891-4	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.0
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24675.D	1	12/06/07	SC	12/03/07	OP8602	EA1535
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.21 U	0.21	0.21	mg/kg	
65-85-0	Benzoic acid	0.051 U	1.0	0.051	mg/kg	
95-57-8	2-Chlorophenol	0.063 U	0.21	0.063	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.047 U	0.21	0.047	mg/kg	
120-83-2	2,4-Dichlorophenol	0.070 U	0.21	0.070	mg/kg	
105-67-9	2,4-Dimethylphenol	0.065 U	0.21	0.065	mg/kg	
51-28-5	2,4-Dinitrophenol	0.070 U	1.0	0.070	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.13 U	0.41	0.13	mg/kg	
95-48-7	2-Methylphenol	0.045 U	0.21	0.045	mg/kg	
	3&4-Methylphenol	0.067 U	0.21	0.067	mg/kg	
100-02-7	4-Nitrophenol	0.081 U	0.21	0.081	mg/kg	
87-86-5	Pentachlorophenol	0.054 U	1.0	0.054	mg/kg	
108-95-2	Phenol	0.083 U	0.21	0.083	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.058 U	0.21	0.058	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.055 U	0.21	0.055	mg/kg	
83-32-9	Acenaphthene	0.050 U	0.21	0.050	mg/kg	
208-96-8	Acenaphthylene	0.056 U	0.21	0.056	mg/kg	
120-12-7	Anthracene	0.067 U	0.21	0.067	mg/kg	
56-55-3	Benzo(a)anthracene	0.077 U	0.21	0.077	mg/kg	
50-32-8	Benzo(a)pyrene	0.067 U	0.21	0.067	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.087 U	0.21	0.087	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.21	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.095 U	0.21	0.095	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.079 U	0.21	0.079	mg/kg	
85-68-7	Butyl benzyl phthalate	0.098 U	0.21	0.098	mg/kg	
100-51-6	Benzyl Alcohol	0.073 U	0.21	0.073	mg/kg	
91-58-7	2-Chloronaphthalene	0.057 U	0.21	0.057	mg/kg	
106-47-8	4-Chloroaniline	0.058 U	0.21	0.058	mg/kg	
86-74-8	Carbazole	0.088 U	0.21	0.088	mg/kg	
218-01-9	Chrysene	0.067 U	0.21	0.067	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.077 U	0.21	0.077	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.044 U	0.21	0.044	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

3
4

3

Client Sample ID:	FR-057	Date Sampled:	11/29/07
Lab Sample ID:	T19891-4	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.0
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.063 U	0.21	0.063	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.070 U	0.21	0.070	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.064 U	0.21	0.064	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.057 U	0.21	0.057	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.090 U	0.21	0.090	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.053 U	0.21	0.053	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.083 U	0.41	0.083	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.21 U	0.21	0.21	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.21 U	0.21	0.21	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.072 U	0.21	0.072	mg/kg	
132-64-9	Dibenzofuran	0.057 U	0.21	0.057	mg/kg	
122-39-4	Diphenylamine	0.090 U	0.21	0.090	mg/kg	
84-74-2	Di-n-butyl phthalate	0.10 U	0.21	0.10	mg/kg	
117-84-0	Di-n-octyl phthalate	0.19 U	0.21	0.19	mg/kg	
84-66-2	Diethyl phthalate	0.057 U	0.21	0.057	mg/kg	
131-11-3	Dimethyl phthalate	0.051 U	0.21	0.051	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.135	0.21	0.10	mg/kg	J
206-44-0	Fluoranthene	0.093 U	0.21	0.093	mg/kg	
86-73-7	Fluorene	0.063 U	0.21	0.063	mg/kg	
118-74-1	Hexachlorobenzene	0.067 U	0.21	0.067	mg/kg	
87-68-3	Hexachlorobutadiene	0.063 U	0.21	0.063	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.074 U	0.21	0.074	mg/kg	
67-72-1	Hexachloroethane	0.060 U	0.21	0.060	mg/kg	
95-13-6	Indene	1.0 U	1.0	1.0	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.080 U	0.21	0.080	mg/kg	
78-59-1	Isophorone	0.054 U	0.21	0.054	mg/kg	
90-12-0	1-Methylnaphthalene	0.049 U	0.21	0.049	mg/kg	
91-57-6	2-Methylnaphthalene	0.055 U	0.21	0.055	mg/kg	
	6-Methyl Chrysene	0.21 U	0.21	0.21	mg/kg	
88-74-4	2-Nitroaniline	0.053 U	0.21	0.053	mg/kg	
99-09-2	3-Nitroaniline	0.077 U	0.21	0.077	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.21	0.11	mg/kg	
91-20-3	Naphthalene	0.050 U	0.21	0.050	mg/kg	
98-95-3	Nitrobenzene	0.058 U	0.21	0.058	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.083 U	0.21	0.083	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.090 U	0.21	0.090	mg/kg	
85-01-8	Phenanthrene	0.077 U	0.21	0.077	mg/kg	
129-00-0	Pyrene	0.10 U	0.21	0.10	mg/kg	
91-22-5	Quinoline	0.21 U	0.21	0.21	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.054 U	0.21	0.054	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

3
4

3

Client Sample ID:	FR-057	Date Sampled:	11/29/07
Lab Sample ID:	T19891-4	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.0
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
----------------	-----------------	---------------	------------	------------	--------------	----------

931-17-9	1,3&1,4-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
	1,2-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
98-85-1	1-Phenylethanol	0.21 U	0.21	0.21	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
----------------	-----------------------------	---------------	---------------	---------------

367-12-4	2-Fluorophenol	43%		26-124%
4165-62-2	Phenol-d5	52%		19-106%
118-79-6	2,4,6-Tribromophenol	72%		18-129%
4165-60-0	Nitrobenzene-d5	55%		18-104%
321-60-8	2-Fluorobiphenyl	59%		21-114%
1718-51-0	Terphenyl-d14	67%		24-149%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

34

3

Client Sample ID:	FR-057	Date Sampled:	11/29/07
Lab Sample ID:	T19891-4	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.0
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	5130	20	4.4	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Antimony	0.27 U	1.0	0.27	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	1.1	1.0	0.20	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Barium	57.7	20	0.060	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	0.14 B	0.50	0.020	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	0.12 U	0.60	0.12	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Calcium	18400	500	1.7	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	4.8	1.0	0.070	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	1.4 B	5.0	0.18	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Copper	3.4	2.5	0.13	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Iron	3300	10	2.3	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Lead	20.4	1.0	0.40	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Magnesium	1940	500	1.2	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Manganese	98.5	1.5	0.070	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.040	0.019	0.000075	mg/kg	1	12/08/07	12/08/07 NS	SW846 7471A ²	SW846 7471A ⁵
Nickel	2.1 B	4.8	0.16	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Potassium	1200	500	31	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	0.24 U	1.0	0.24	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Silver	0.080 U	1.0	0.080	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Sodium	369 B	500	27	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Thallium	0.50 U	2.0	0.50	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	6.3	5.0	0.12	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	40.3	2.0	0.40	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA3252
- (2) Instrument QC Batch: MA3262
- (3) Instrument QC Batch: MA3269
- (4) Prep QC Batch: MP6962
- (5) Prep QC Batch: MP6997
- (6) Prep QC Batch: MP7011

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

34

3

Client Sample ID:	FR-057	Date Sampled:	11/29/07
Lab Sample ID:	T19891-4	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.0
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.0 U	2.0	1.0	mg/kg	1	12/18/07	AFL	SW846 3060A/7196A
Solids, Percent	80			%	1	12/04/07 16:35	SS	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

35

3

Client Sample ID:	FR-058	Date Sampled:	11/29/07
Lab Sample ID:	T19891-5	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	85.2
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001032.D	1	12/07/07	LJ	n/a	n/a	VM43
Run #2							

	Initial Weight	Final Volume
Run #1	5.33 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0307	0.055	0.0079	mg/kg	J
71-43-2	Benzene	0.0015 U	0.0055	0.0015	mg/kg	
108-86-1	Bromobenzene	0.0014 U	0.0055	0.0014	mg/kg	
74-97-5	Bromochloromethane	0.0016 U	0.0055	0.0016	mg/kg	
75-27-4	Bromodichloromethane	0.0016 U	0.0055	0.0016	mg/kg	
75-25-2	Bromoform	0.0013 U	0.0055	0.0013	mg/kg	
71-36-3	n-Butyl Alcohol	0.055 U	0.055	0.055	mg/kg	
104-51-8	n-Butylbenzene	0.0011 U	0.0055	0.0011	mg/kg	
98-06-6	tert-Butylbenzene	0.0011 U	0.0055	0.0011	mg/kg	
108-90-7	Chlorobenzene	0.0015 U	0.0055	0.0015	mg/kg	
75-00-3	Chloroethane	0.0016 U	0.0055	0.0016	mg/kg	
67-66-3	Chloroform	0.0014 U	0.0055	0.0014	mg/kg	
95-49-8	o-Chlorotoluene	0.0013 U	0.0055	0.0013	mg/kg	
106-43-4	p-Chlorotoluene	0.0012 U	0.0055	0.0012	mg/kg	
75-15-0	Carbon disulfide	0.0014 U	0.011	0.0014	mg/kg	
56-23-5	Carbon tetrachloride	0.0012 U	0.0055	0.0012	mg/kg	
110-82-7	Cyclohexane	0.0013 U	0.0055	0.0013	mg/kg	
75-34-3	1,1-Dichloroethane	0.0014 U	0.0055	0.0014	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0014 U	0.0055	0.0014	mg/kg	
563-58-6	1,1-Dichloropropene	0.0013 U	0.0055	0.0013	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0016 U	0.0055	0.0016	mg/kg	
106-93-4	1,2-Dibromoethane	0.0015 U	0.0055	0.0015	mg/kg	
107-06-2	1,2-Dichloroethane	0.0015 U	0.0055	0.0015	mg/kg	
78-87-5	1,2-Dichloropropane	0.0016 U	0.0055	0.0016	mg/kg	
142-28-9	1,3-Dichloropropane	0.0016 U	0.0055	0.0016	mg/kg	
123-91-1	1,4-Dioxane	0.026 U	0.28	0.026	mg/kg	
594-20-7	2,2-Dichloropropane	0.0012 U	0.0055	0.0012	mg/kg	
124-48-1	Dibromochloromethane	0.0015 U	0.0055	0.0015	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0012 U	0.0055	0.0012	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0015 U	0.0055	0.0015	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0014 U	0.0055	0.0014	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0014 U	0.0055	0.0014	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

353

3

Client Sample ID:	FR-058	Date Sampled:	11/29/07
Lab Sample ID:	T19891-5	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	85.2
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0015 U	0.0055	0.0015	mg/kg	
100-41-4	Ethylbenzene	0.0014 U	0.0055	0.0014	mg/kg	
60-29-7	Ethyl Ether	0.0055 U	0.0055	0.0055	mg/kg	
110-54-3	Hexane	0.0012 U	0.0055	0.0012	mg/kg	
591-78-6	2-Hexanone	0.0075 U	0.055	0.0075	mg/kg	
87-68-3	Hexachlorobutadiene	0.0013 U	0.0055	0.0013	mg/kg	
98-82-8	Isopropylbenzene	0.0013 U	0.0055	0.0013	mg/kg	
99-87-6	p-Isopropyltoluene	0.0013 U	0.0055	0.0013	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0077 U	0.055	0.0077	mg/kg	
74-83-9	Methyl bromide	0.0017 U	0.0055	0.0017	mg/kg	
74-87-3	Methyl chloride	0.0016 U	0.0055	0.0016	mg/kg	
74-95-3	Methylene bromide	0.0022 U	0.0055	0.0022	mg/kg	
75-09-2	Methylene chloride	0.0027 U	0.011	0.0027	mg/kg	
78-93-3	Methyl ethyl ketone	0.0074 U	0.055	0.0074	mg/kg	
103-65-1	n-Propylbenzene	0.0012 U	0.0055	0.0012	mg/kg	
100-42-5	Styrene	0.0014 U	0.0055	0.0014	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0015 U	0.0055	0.0015	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0013 U	0.0055	0.0013	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0016 U	0.0055	0.0016	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0015 U	0.0055	0.0015	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0013 U	0.0055	0.0013	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0015 U	0.0055	0.0015	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0011 U	0.0055	0.0011	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0012 U	0.0055	0.0012	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0012 U	0.0055	0.0012	mg/kg	
127-18-4	Tetrachloroethylene	0.0015 U	0.0055	0.0015	mg/kg	
108-88-3	Toluene	0.0014 U	0.0055	0.0014	mg/kg	
79-01-6	Trichloroethylene	0.0014 U	0.0055	0.0014	mg/kg	
75-69-4	Trichlorofluoromethane	0.0011 U	0.0055	0.0011	mg/kg	
75-01-4	Vinyl chloride	0.0015 U	0.0055	0.0015	mg/kg	
108-05-4	Vinyl Acetate	0.0084 U	0.028	0.0084	mg/kg	
1330-20-7	Xylene (total)	0.0042 U	0.017	0.0042	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		68-127%
2037-26-5	Toluene-D8	124%		76-139%
460-00-4	4-Bromofluorobenzene	121%		68-167%
17060-07-0	1,2-Dichloroethane-D4	103%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

353

3

Client Sample ID:	FR-058	Date Sampled:	11/29/07
Lab Sample ID:	T19891-5	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	85.2
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24617.D	1	12/03/07	SC	12/03/07	OP8602	EA1532
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.19 U	0.19	0.19	mg/kg	
65-85-0	Benzoic acid	0.049 U	0.97	0.049	mg/kg	
95-57-8	2-Chlorophenol	0.060 U	0.19	0.060	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.044 U	0.19	0.044	mg/kg	
120-83-2	2,4-Dichlorophenol	0.066 U	0.19	0.066	mg/kg	
105-67-9	2,4-Dimethylphenol	0.062 U	0.19	0.062	mg/kg	
51-28-5	2,4-Dinitrophenol	0.066 U	0.97	0.066	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.12 U	0.39	0.12	mg/kg	
95-48-7	2-Methylphenol	0.042 U	0.19	0.042	mg/kg	
	3&4-Methylphenol	0.064 U	0.19	0.064	mg/kg	
100-02-7	4-Nitrophenol	0.077 U	0.19	0.077	mg/kg	
87-86-5	Pentachlorophenol	0.051 U	0.97	0.051	mg/kg	
108-95-2	Phenol	0.078 U	0.19	0.078	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.054 U	0.19	0.054	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.052 U	0.19	0.052	mg/kg	
83-32-9	Acenaphthene	0.047 U	0.19	0.047	mg/kg	
208-96-8	Acenaphthylene	0.052 U	0.19	0.052	mg/kg	
120-12-7	Anthracene	0.063 U	0.19	0.063	mg/kg	
56-55-3	Benzo(a)anthracene	0.072 U	0.19	0.072	mg/kg	
50-32-8	Benzo(a)pyrene	0.063 U	0.19	0.063	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.082 U	0.19	0.082	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.19	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.089 U	0.19	0.089	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.074 U	0.19	0.074	mg/kg	
85-68-7	Butyl benzyl phthalate	0.093 U	0.19	0.093	mg/kg	
100-51-6	Benzyl Alcohol	0.069 U	0.19	0.069	mg/kg	
91-58-7	2-Chloronaphthalene	0.054 U	0.19	0.054	mg/kg	
106-47-8	4-Chloroaniline	0.055 U	0.19	0.055	mg/kg	
86-74-8	Carbazole	0.084 U	0.19	0.084	mg/kg	
218-01-9	Chrysene	0.064 U	0.19	0.064	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.073 U	0.19	0.073	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.042 U	0.19	0.042	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

353

3

Client Sample ID:	FR-058	Date Sampled:	11/29/07
Lab Sample ID:	T19891-5	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	85.2
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.059 U	0.19	0.059	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.066 U	0.19	0.066	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.060 U	0.19	0.060	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.054 U	0.19	0.054	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.085 U	0.19	0.085	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.050 U	0.19	0.050	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.079 U	0.39	0.079	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.19 U	0.19	0.19	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.19 U	0.19	0.19	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.068 U	0.19	0.068	mg/kg	
132-64-9	Dibenzofuran	0.054 U	0.19	0.054	mg/kg	
122-39-4	Diphenylamine	0.085 U	0.19	0.085	mg/kg	
84-74-2	Di-n-butyl phthalate	0.095 U	0.19	0.095	mg/kg	
117-84-0	Di-n-octyl phthalate	0.18 U	0.19	0.18	mg/kg	
84-66-2	Diethyl phthalate	0.054 U	0.19	0.054	mg/kg	
131-11-3	Dimethyl phthalate	0.048 U	0.19	0.048	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.097 U	0.19	0.097	mg/kg	
206-44-0	Fluoranthene	0.087 U	0.19	0.087	mg/kg	
86-73-7	Fluorene	0.059 U	0.19	0.059	mg/kg	
118-74-1	Hexachlorobenzene	0.064 U	0.19	0.064	mg/kg	
87-68-3	Hexachlorobutadiene	0.059 U	0.19	0.059	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.070 U	0.19	0.070	mg/kg	
67-72-1	Hexachloroethane	0.057 U	0.19	0.057	mg/kg	
95-13-6	Indene	0.97 U	0.97	0.97	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.075 U	0.19	0.075	mg/kg	
78-59-1	Isophorone	0.051 U	0.19	0.051	mg/kg	
90-12-0	1-Methylnaphthalene	0.046 U	0.19	0.046	mg/kg	
91-57-6	2-Methylnaphthalene	0.052 U	0.19	0.052	mg/kg	
	6-Methyl Chrysene	0.19 U	0.19	0.19	mg/kg	
88-74-4	2-Nitroaniline	0.051 U	0.19	0.051	mg/kg	
99-09-2	3-Nitroaniline	0.073 U	0.19	0.073	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.19	0.11	mg/kg	
91-20-3	Naphthalene	0.047 U	0.19	0.047	mg/kg	
98-95-3	Nitrobenzene	0.054 U	0.19	0.054	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.078 U	0.19	0.078	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.085 U	0.19	0.085	mg/kg	
85-01-8	Phenanthrene	0.072 U	0.19	0.072	mg/kg	
129-00-0	Pyrene	0.095 U	0.19	0.095	mg/kg	
91-22-5	Quinoline	0.19 U	0.19	0.19	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.051 U	0.19	0.051	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

353

3

Client Sample ID:	FR-058	Date Sampled:	11/29/07
Lab Sample ID:	T19891-5	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	85.2
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.19 U	0.19	0.19	mg/kg	
	1,2-Cyclohexanediol	0.19 U	0.19	0.19	mg/kg	
98-85-1	1-Phenylethanol	0.19 U	0.19	0.19	mg/kg	
CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits						
367-12-4	2-Fluorophenol	63%			26-124%	
4165-62-2	Phenol-d5	73%			19-106%	
118-79-6	2,4,6-Tribromophenol	94%			18-129%	
4165-60-0	Nitrobenzene-d5	80%			18-104%	
321-60-8	2-Fluorobiphenyl	72%			21-114%	
1718-51-0	Terphenyl-d14	95%			24-149%	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

353

3

Client Sample ID:	FR-058	Date Sampled:	11/29/07
Lab Sample ID:	T19891-5	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	85.2
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	1960	23	4.9	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Antimony	0.30 U	1.1	0.30	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	0.74 B	1.1	0.23	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Barium	39.1	23	0.068	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	0.023 B	0.56	0.023	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	0.11 U	0.54	0.11	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Calcium	12600	560	1.9	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	4.1	1.1	0.079	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	0.39 B	5.6	0.20	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Copper	1.3 B	2.8	0.15	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Iron	1280	11	2.5	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Lead	2.5	1.1	0.45	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Magnesium	1840	560	1.3	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Manganese	75.0	1.7	0.079	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.0045 B	0.017	0.00067	mg/kg	1	12/08/07	12/08/07 NS	SW846 7471A ²	SW846 7471A ⁵
Nickel	2.4 B	4.4	0.14	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Potassium	404 B	560	35	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	0.27 U	1.1	0.27	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Silver	0.090 U	1.1	0.090	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Sodium	292 B	560	30	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Thallium	0.56 U	2.3	0.56	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	2.3 B	5.6	0.14	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	7.4	2.3	0.45	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA3252
- (2) Instrument QC Batch: MA3262
- (3) Instrument QC Batch: MA3269
- (4) Prep QC Batch: MP6962
- (5) Prep QC Batch: MP6997
- (6) Prep QC Batch: MP7011

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

35

3

Client Sample ID:	FR-058	Date Sampled:	11/29/07
Lab Sample ID:	T19891-5	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	85.2
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.0 U	2.0	1.0	mg/kg	1	12/18/07	AFL	SW846 3060A/7196A
Solids, Percent	85.2			%	1	12/04/07 16:35	SS	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

3

3

Client Sample ID:	FR-058 MSD	Date Sampled:	11/29/07
Lab Sample ID:	T19891-5D	Date Received:	11/30/07
Matrix:	SO - Soil Dup/MSD	Percent Solids:	85.1
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.1		%	1	12/04/07 16:35	SS	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Page 1 of 1

3.7

3

Client Sample ID:	FR-058 MS	Date Sampled:	11/29/07
Lab Sample ID:	T19891-5S	Date Received:	11/30/07
Matrix:	SO - Soil Matrix Spike	Percent Solids:	85.4
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.4		%	1	12/08/07 12:00	CP	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Page 1 of 2

38

3

Client Sample ID:	FR-059	Date Sampled:	11/29/07
Lab Sample ID:	T19891-6	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	78.7
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001033.D	1	12/07/07	LJ	n/a	n/a	VM43
Run #2							

	Initial Weight	Final Volume
Run #1	5.16 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0089 U	0.062	0.0089	mg/kg	
71-43-2	Benzene	0.0017 U	0.0062	0.0017	mg/kg	
108-86-1	Bromobenzene	0.0016 U	0.0062	0.0016	mg/kg	
74-97-5	Bromochloromethane	0.0018 U	0.0062	0.0018	mg/kg	
75-27-4	Bromodichloromethane	0.0017 U	0.0062	0.0017	mg/kg	
75-25-2	Bromoform	0.0015 U	0.0062	0.0015	mg/kg	
71-36-3	n-Butyl Alcohol	0.062 U	0.062	0.062	mg/kg	
104-51-8	n-Butylbenzene	0.0012 U	0.0062	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0062	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0017 U	0.0062	0.0017	mg/kg	
75-00-3	Chloroethane	0.0017 U	0.0062	0.0017	mg/kg	
67-66-3	Chloroform	0.0015 U	0.0062	0.0015	mg/kg	
95-49-8	o-Chlorotoluene	0.0015 U	0.0062	0.0015	mg/kg	
106-43-4	p-Chlorotoluene	0.0014 U	0.0062	0.0014	mg/kg	
75-15-0	Carbon disulfide	0.0016 U	0.012	0.0016	mg/kg	
56-23-5	Carbon tetrachloride	0.0014 U	0.0062	0.0014	mg/kg	
110-82-7	Cyclohexane	0.0014 U	0.0062	0.0014	mg/kg	
75-34-3	1,1-Dichloroethane	0.0016 U	0.0062	0.0016	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0016 U	0.0062	0.0016	mg/kg	
563-58-6	1,1-Dichloropropene	0.0015 U	0.0062	0.0015	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0017 U	0.0062	0.0017	mg/kg	
106-93-4	1,2-Dibromoethane	0.0017 U	0.0062	0.0017	mg/kg	
107-06-2	1,2-Dichloroethane	0.0017 U	0.0062	0.0017	mg/kg	
78-87-5	1,2-Dichloropropane	0.0018 U	0.0062	0.0018	mg/kg	
142-28-9	1,3-Dichloropropane	0.0018 U	0.0062	0.0018	mg/kg	
123-91-1	1,4-Dioxane	0.029 U	0.31	0.029	mg/kg	
594-20-7	2,2-Dichloropropane	0.0014 U	0.0062	0.0014	mg/kg	
124-48-1	Dibromochloromethane	0.0017 U	0.0062	0.0017	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0013 U	0.0062	0.0013	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0017 U	0.0062	0.0017	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0016 U	0.0062	0.0016	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0016 U	0.0062	0.0016	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

38

3

Client Sample ID:	FR-059	Date Sampled:	11/29/07
Lab Sample ID:	T19891-6	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	78.7
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0017 U	0.0062	0.0017	mg/kg	
100-41-4	Ethylbenzene	0.0016 U	0.0062	0.0016	mg/kg	
60-29-7	Ethyl Ether	0.0062 U	0.0062	0.0062	mg/kg	
110-54-3	Hexane	0.0013 U	0.0062	0.0013	mg/kg	
591-78-6	2-Hexanone	0.0084 U	0.062	0.0084	mg/kg	
87-68-3	Hexachlorobutadiene	0.0014 U	0.0062	0.0014	mg/kg	
98-82-8	Isopropylbenzene	0.0015 U	0.0062	0.0015	mg/kg	
99-87-6	p-Isopropyltoluene	0.0015 U	0.0062	0.0015	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0086 U	0.062	0.0086	mg/kg	
74-83-9	Methyl bromide	0.0018 U	0.0062	0.0018	mg/kg	
74-87-3	Methyl chloride	0.0018 U	0.0062	0.0018	mg/kg	
74-95-3	Methylene bromide	0.0025 U	0.0062	0.0025	mg/kg	
75-09-2	Methylene chloride	0.0030 U	0.012	0.0030	mg/kg	
78-93-3	Methyl ethyl ketone	0.0083 U	0.062	0.0083	mg/kg	
103-65-1	n-Propylbenzene	0.0014 U	0.0062	0.0014	mg/kg	
100-42-5	Styrene	0.0016 U	0.0062	0.0016	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0017 U	0.0062	0.0017	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0015 U	0.0062	0.0015	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0018 U	0.0062	0.0018	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0017 U	0.0062	0.0017	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0015 U	0.0062	0.0015	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0017 U	0.0062	0.0017	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0062	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0019	0.0062	0.0014	mg/kg	J
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0062	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0016 U	0.0062	0.0016	mg/kg	
108-88-3	Toluene	0.0016 U	0.0062	0.0016	mg/kg	
79-01-6	Trichloroethylene	0.0016 U	0.0062	0.0016	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0062	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0017 U	0.0062	0.0017	mg/kg	
108-05-4	Vinyl Acetate	0.0093 U	0.031	0.0093	mg/kg	
1330-20-7	Xylene (total)	0.0057	0.018	0.0047	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		68-127%
2037-26-5	Toluene-D8	126%		76-139%
460-00-4	4-Bromofluorobenzene	132%		68-167%
17060-07-0	1,2-Dichloroethane-D4	103%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

38

3

Client Sample ID:	FR-059	Date Sampled:	11/29/07
Lab Sample ID:	T19891-6	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	78.7
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24670.D	1	12/05/07	SC	12/03/07	OP8602	EA1535
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.21 U	0.21	0.21	mg/kg	
65-85-0	Benzoic acid	0.051 U	1.0	0.051	mg/kg	
95-57-8	2-Chlorophenol	0.063 U	0.21	0.063	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.047 U	0.21	0.047	mg/kg	
120-83-2	2,4-Dichlorophenol	0.069 U	0.21	0.069	mg/kg	
105-67-9	2,4-Dimethylphenol	0.065 U	0.21	0.065	mg/kg	
51-28-5	2,4-Dinitrophenol	0.069 U	1.0	0.069	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.13 U	0.41	0.13	mg/kg	
95-48-7	2-Methylphenol	0.045 U	0.21	0.045	mg/kg	
	3&4-Methylphenol	0.067 U	0.21	0.067	mg/kg	
100-02-7	4-Nitrophenol	0.081 U	0.21	0.081	mg/kg	
87-86-5	Pentachlorophenol	0.054 U	1.0	0.054	mg/kg	
108-95-2	Phenol	0.083 U	0.21	0.083	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.058 U	0.21	0.058	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.055 U	0.21	0.055	mg/kg	
83-32-9	Acenaphthene	0.050 U	0.21	0.050	mg/kg	
208-96-8	Acenaphthylene	0.055 U	0.21	0.055	mg/kg	
120-12-7	Anthracene	0.067 U	0.21	0.067	mg/kg	
56-55-3	Benzo(a)anthracene	0.076 U	0.21	0.076	mg/kg	
50-32-8	Benzo(a)pyrene	0.067 U	0.21	0.067	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.087 U	0.21	0.087	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.21	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.095 U	0.21	0.095	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.078 U	0.21	0.078	mg/kg	
85-68-7	Butyl benzyl phthalate	0.098 U	0.21	0.098	mg/kg	
100-51-6	Benzyl Alcohol	0.073 U	0.21	0.073	mg/kg	
91-58-7	2-Chloronaphthalene	0.057 U	0.21	0.057	mg/kg	
106-47-8	4-Chloroaniline	0.058 U	0.21	0.058	mg/kg	
86-74-8	Carbazole	0.088 U	0.21	0.088	mg/kg	
218-01-9	Chrysene	0.067 U	0.21	0.067	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.077 U	0.21	0.077	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.044 U	0.21	0.044	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

38

3

Client Sample ID:	FR-059	Date Sampled:	11/29/07
Lab Sample ID:	T19891-6	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	78.7
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.063 U	0.21	0.063	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.070 U	0.21	0.070	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.064 U	0.21	0.064	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.057 U	0.21	0.057	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.090 U	0.21	0.090	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.053 U	0.21	0.053	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.083 U	0.41	0.083	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.21 U	0.21	0.21	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.21 U	0.21	0.21	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.072 U	0.21	0.072	mg/kg	
132-64-9	Dibenzofuran	0.057 U	0.21	0.057	mg/kg	
122-39-4	Diphenylamine	0.090 U	0.21	0.090	mg/kg	
84-74-2	Di-n-butyl phthalate	0.10 U	0.21	0.10	mg/kg	
117-84-0	Di-n-octyl phthalate	0.19 U	0.21	0.19	mg/kg	
84-66-2	Diethyl phthalate	0.057 U	0.21	0.057	mg/kg	
131-11-3	Dimethyl phthalate	0.051 U	0.21	0.051	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.10 U	0.21	0.10	mg/kg	
206-44-0	Fluoranthene	0.092 U	0.21	0.092	mg/kg	
86-73-7	Fluorene	0.062 U	0.21	0.062	mg/kg	
118-74-1	Hexachlorobenzene	0.067 U	0.21	0.067	mg/kg	
87-68-3	Hexachlorobutadiene	0.062 U	0.21	0.062	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.074 U	0.21	0.074	mg/kg	
67-72-1	Hexachloroethane	0.060 U	0.21	0.060	mg/kg	
95-13-6	Indene	1.0 U	1.0	1.0	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.080 U	0.21	0.080	mg/kg	
78-59-1	Isophorone	0.054 U	0.21	0.054	mg/kg	
90-12-0	1-Methylnaphthalene	0.049 U	0.21	0.049	mg/kg	
91-57-6	2-Methylnaphthalene	0.055 U	0.21	0.055	mg/kg	
	6-Methyl Chrysene	0.21 U	0.21	0.21	mg/kg	
88-74-4	2-Nitroaniline	0.053 U	0.21	0.053	mg/kg	
99-09-2	3-Nitroaniline	0.077 U	0.21	0.077	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.21	0.11	mg/kg	
91-20-3	Naphthalene	0.050 U	0.21	0.050	mg/kg	
98-95-3	Nitrobenzene	0.058 U	0.21	0.058	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.083 U	0.21	0.083	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.090 U	0.21	0.090	mg/kg	
85-01-8	Phenanthrene	0.076 U	0.21	0.076	mg/kg	
129-00-0	Pyrene	0.10 U	0.21	0.10	mg/kg	
91-22-5	Quinoline	0.21 U	0.21	0.21	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.054 U	0.21	0.054	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

38

3

Client Sample ID:	FR-059	Date Sampled:	11/29/07
Lab Sample ID:	T19891-6	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	78.7
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
	1,2-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
98-85-1	1-Phenylethanol	0.21 U	0.21	0.21	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		26-124%
4165-62-2	Phenol-d5	68%		19-106%
118-79-6	2,4,6-Tribromophenol	76%		18-129%
4165-60-0	Nitrobenzene-d5	70%		18-104%
321-60-8	2-Fluorobiphenyl	75%		21-114%
1718-51-0	Terphenyl-d14	91%		24-149%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

38

3

Client Sample ID:	FR-059	Date Sampled:	11/29/07
Lab Sample ID:	T19891-6	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	78.7
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	3680	24	5.2	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Antimony	0.32 U	1.2	0.32	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	0.72 B	1.2	0.24	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Barium	53.5	24	0.071	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	0.074 B	0.59	0.024	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	0.12 U	0.61	0.12	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Calcium	15900	590	2.0	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	4.0	1.2	0.083	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	0.71 B	5.9	0.21	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Copper	3.1	3.0	0.15	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Iron	2290	12	2.7	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Lead	9.8	1.2	0.47	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Magnesium	1250	590	1.4	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Manganese	80.5	1.8	0.083	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.034	0.020	0.00078	mg/kg	1	12/08/07	12/08/07 NS	SW846 7471A ²	SW846 7471A ⁵
Nickel	1.9 B	4.9	0.16	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Potassium	577 B	590	37	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	0.28 U	1.2	0.28	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Silver	0.095 U	1.2	0.095	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Sodium	403 B	590	32	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Thallium	0.59 U	2.4	0.59	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	4.5 B	5.9	0.14	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	129	2.4	0.47	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA3252
- (2) Instrument QC Batch: MA3262
- (3) Instrument QC Batch: MA3269
- (4) Prep QC Batch: MP6962
- (5) Prep QC Batch: MP6997
- (6) Prep QC Batch: MP7011

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

38

3

Client Sample ID:	FR-059	Date Sampled:	11/29/07
Lab Sample ID:	T19891-6	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	78.7
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.0 U	2.0	1.0	mg/kg	1	12/18/07	AFL	SW846 3060A/7196A
Solids, Percent	78.7			%	1	12/04/07 16:35	SS	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

63

3

Client Sample ID:	FR-060	Date Sampled:	11/29/07
Lab Sample ID:	T19891-7	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	84.9
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001034.D	1	12/07/07	LJ	n/a	n/a	VM43
Run #2							

	Initial Weight	Final Volume
Run #1	5.01 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0259	0.059	0.0085	mg/kg	J
71-43-2	Benzene	0.0016 U	0.0059	0.0016	mg/kg	
108-86-1	Bromobenzene	0.0015 U	0.0059	0.0015	mg/kg	
74-97-5	Bromochloromethane	0.0017 U	0.0059	0.0017	mg/kg	
75-27-4	Bromodichloromethane	0.0017 U	0.0059	0.0017	mg/kg	
75-25-2	Bromoform	0.0014 U	0.0059	0.0014	mg/kg	
71-36-3	n-Butyl Alcohol	0.059 U	0.059	0.059	mg/kg	
104-51-8	n-Butylbenzene	0.0011 U	0.0059	0.0011	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0059	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0016 U	0.0059	0.0016	mg/kg	
75-00-3	Chloroethane	0.0017 U	0.0059	0.0017	mg/kg	
67-66-3	Chloroform	0.0015 U	0.0059	0.0015	mg/kg	
95-49-8	o-Chlorotoluene	0.0014 U	0.0059	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	0.0013 U	0.0059	0.0013	mg/kg	
75-15-0	Carbon disulfide	0.0015 U	0.012	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0059	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0014 U	0.0059	0.0014	mg/kg	
75-34-3	1,1-Dichloroethane	0.0015 U	0.0059	0.0015	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0015 U	0.0059	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	0.0014 U	0.0059	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0017 U	0.0059	0.0017	mg/kg	
106-93-4	1,2-Dibromoethane	0.0016 U	0.0059	0.0016	mg/kg	
107-06-2	1,2-Dichloroethane	0.0016 U	0.0059	0.0016	mg/kg	
78-87-5	1,2-Dichloropropane	0.0017 U	0.0059	0.0017	mg/kg	
142-28-9	1,3-Dichloropropane	0.0017 U	0.0059	0.0017	mg/kg	
123-91-1	1,4-Dioxane	0.028 U	0.29	0.028	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0059	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0016 U	0.0059	0.0016	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0013 U	0.0059	0.0013	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0016 U	0.0059	0.0016	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0015 U	0.0059	0.0015	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0015 U	0.0059	0.0015	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

63

3

Client Sample ID:	FR-060	Date Sampled:	11/29/07
Lab Sample ID:	T19891-7	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	84.9
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0016 U	0.0059	0.0016	mg/kg	
100-41-4	Ethylbenzene	0.0015 U	0.0059	0.0015	mg/kg	
60-29-7	Ethyl Ether	0.0059 U	0.0059	0.0059	mg/kg	
110-54-3	Hexane	0.0012 U	0.0059	0.0012	mg/kg	
591-78-6	2-Hexanone	0.0080 U	0.059	0.0080	mg/kg	
87-68-3	Hexachlorobutadiene	0.0014 U	0.0059	0.0014	mg/kg	
98-82-8	Isopropylbenzene	0.0014 U	0.0059	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	0.0014 U	0.0059	0.0014	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0082 U	0.059	0.0082	mg/kg	
74-83-9	Methyl bromide	0.0018 U	0.0059	0.0018	mg/kg	
74-87-3	Methyl chloride	0.0017 U	0.0059	0.0017	mg/kg	
74-95-3	Methylene bromide	0.0024 U	0.0059	0.0024	mg/kg	
75-09-2	Methylene chloride	0.0029 U	0.012	0.0029	mg/kg	
78-93-3	Methyl ethyl ketone	0.0079 U	0.059	0.0079	mg/kg	
103-65-1	n-Propylbenzene	0.0013 U	0.0059	0.0013	mg/kg	
100-42-5	Styrene	0.0015 U	0.0059	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0016 U	0.0059	0.0016	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0014 U	0.0059	0.0014	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0017 U	0.0059	0.0017	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0016 U	0.0059	0.0016	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0014 U	0.0059	0.0014	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0016 U	0.0059	0.0016	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0059	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0013 U	0.0059	0.0013	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0059	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0016 U	0.0059	0.0016	mg/kg	
108-88-3	Toluene	0.0015 U	0.0059	0.0015	mg/kg	
79-01-6	Trichloroethylene	0.0015 U	0.0059	0.0015	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0059	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0016 U	0.0059	0.0016	mg/kg	
108-05-4	Vinyl Acetate	0.0089 U	0.029	0.0089	mg/kg	
1330-20-7	Xylene (total)	0.0044 U	0.018	0.0044	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		68-127%
2037-26-5	Toluene-D8	124%		76-139%
460-00-4	4-Bromofluorobenzene	118%		68-167%
17060-07-0	1,2-Dichloroethane-D4	101%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

63

3

Client Sample ID:	FR-060	Date Sampled:	11/29/07
Lab Sample ID:	T19891-7	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	84.9
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24609.D	1	12/03/07	SC	12/03/07	OP8602	EA1532
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.19 U	0.19	0.19	mg/kg	
65-85-0	Benzoic acid	0.049 U	0.97	0.049	mg/kg	
95-57-8	2-Chlorophenol	0.060 U	0.19	0.060	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.044 U	0.19	0.044	mg/kg	
120-83-2	2,4-Dichlorophenol	0.066 U	0.19	0.066	mg/kg	
105-67-9	2,4-Dimethylphenol	0.062 U	0.19	0.062	mg/kg	
51-28-5	2,4-Dinitrophenol	0.066 U	0.97	0.066	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.12 U	0.39	0.12	mg/kg	
95-48-7	2-Methylphenol	0.042 U	0.19	0.042	mg/kg	
	3&4-Methylphenol	0.064 U	0.19	0.064	mg/kg	
100-02-7	4-Nitrophenol	0.077 U	0.19	0.077	mg/kg	
87-86-5	Pentachlorophenol	0.051 U	0.97	0.051	mg/kg	
108-95-2	Phenol	0.078 U	0.19	0.078	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.055 U	0.19	0.055	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.052 U	0.19	0.052	mg/kg	
83-32-9	Acenaphthene	0.047 U	0.19	0.047	mg/kg	
208-96-8	Acenaphthylene	0.053 U	0.19	0.053	mg/kg	
120-12-7	Anthracene	0.064 U	0.19	0.064	mg/kg	
56-55-3	Benzo(a)anthracene	0.072 U	0.19	0.072	mg/kg	
50-32-8	Benzo(a)pyrene	0.064 U	0.19	0.064	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.082 U	0.19	0.082	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.19	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.090 U	0.19	0.090	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.074 U	0.19	0.074	mg/kg	
85-68-7	Butyl benzyl phthalate	0.093 U	0.19	0.093	mg/kg	
100-51-6	Benzyl Alcohol	0.069 U	0.19	0.069	mg/kg	
91-58-7	2-Chloronaphthalene	0.054 U	0.19	0.054	mg/kg	
106-47-8	4-Chloroaniline	0.055 U	0.19	0.055	mg/kg	
86-74-8	Carbazole	0.084 U	0.19	0.084	mg/kg	
218-01-9	Chrysene	0.064 U	0.19	0.064	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.073 U	0.19	0.073	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.042 U	0.19	0.042	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-060	Date Sampled:	11/29/07
Lab Sample ID:	T19891-7	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	84.9
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.060 U	0.19	0.060	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.066 U	0.19	0.066	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.060 U	0.19	0.060	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.054 U	0.19	0.054	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.085 U	0.19	0.085	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.050 U	0.19	0.050	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.079 U	0.39	0.079	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.19 U	0.19	0.19	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.19 U	0.19	0.19	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.068 U	0.19	0.068	mg/kg	
132-64-9	Dibenzofuran	0.054 U	0.19	0.054	mg/kg	
122-39-4	Diphenylamine	0.085 U	0.19	0.085	mg/kg	
84-74-2	Di-n-butyl phthalate	0.095 U	0.19	0.095	mg/kg	
117-84-0	Di-n-octyl phthalate	0.18 U	0.19	0.18	mg/kg	
84-66-2	Diethyl phthalate	0.054 U	0.19	0.054	mg/kg	
131-11-3	Dimethyl phthalate	0.048 U	0.19	0.048	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.097 U	0.19	0.097	mg/kg	
206-44-0	Fluoranthene	0.088 U	0.19	0.088	mg/kg	
86-73-7	Fluorene	0.059 U	0.19	0.059	mg/kg	
118-74-1	Hexachlorobenzene	0.064 U	0.19	0.064	mg/kg	
87-68-3	Hexachlorobutadiene	0.059 U	0.19	0.059	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.071 U	0.19	0.071	mg/kg	
67-72-1	Hexachloroethane	0.057 U	0.19	0.057	mg/kg	
95-13-6	Indene	0.97 U	0.97	0.97	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.076 U	0.19	0.076	mg/kg	
78-59-1	Isophorone	0.051 U	0.19	0.051	mg/kg	
90-12-0	1-Methylnaphthalene	0.046 U	0.19	0.046	mg/kg	
91-57-6	2-Methylnaphthalene	0.052 U	0.19	0.052	mg/kg	
	6-Methyl Chrysene	0.19 U	0.19	0.19	mg/kg	
88-74-4	2-Nitroaniline	0.051 U	0.19	0.051	mg/kg	
99-09-2	3-Nitroaniline	0.073 U	0.19	0.073	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.19	0.11	mg/kg	
91-20-3	Naphthalene	0.047 U	0.19	0.047	mg/kg	
98-95-3	Nitrobenzene	0.055 U	0.19	0.055	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.078 U	0.19	0.078	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.085 U	0.19	0.085	mg/kg	
85-01-8	Phenanthrene	0.072 U	0.19	0.072	mg/kg	
129-00-0	Pyrene	0.095 U	0.19	0.095	mg/kg	
91-22-5	Quinoline	0.19 U	0.19	0.19	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.051 U	0.19	0.051	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

63

3

Client Sample ID:	FR-060	Date Sampled:	11/29/07
Lab Sample ID:	T19891-7	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	84.9
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.19 U	0.19	0.19	mg/kg	
	1,2-Cyclohexanediol	0.19 U	0.19	0.19	mg/kg	
98-85-1	1-Phenylethanol	0.19 U	0.19	0.19	mg/kg	
CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits						
367-12-4	2-Fluorophenol	58%			26-124%	
4165-62-2	Phenol-d5	66%			19-106%	
118-79-6	2,4,6-Tribromophenol	78%			18-129%	
4165-60-0	Nitrobenzene-d5	73%			18-104%	
321-60-8	2-Fluorobiphenyl	69%			21-114%	
1718-51-0	Terphenyl-d14	78%			24-149%	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

63

3

Client Sample ID:	FR-060	Date Sampled:	11/29/07
Lab Sample ID:	T19891-7	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	84.9
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	3640	23	5.0	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Antimony	0.31 U	1.2	0.31	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	0.33 B	1.2	0.23	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Barium	50.6	23	0.069	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	0.11 B	0.58	0.023	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	0.11 U	0.57	0.11	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Calcium	1630	580	2.0	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	3.2	1.2	0.081	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	0.99 B	5.8	0.21	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Copper	1.7 B	2.9	0.15	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Iron	2610	12	2.6	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Lead	2.6	1.2	0.46	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Magnesium	1070	580	1.3	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Manganese	49.3	1.7	0.081	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.0025 B	0.019	0.00073	mg/kg	1	12/08/07	12/08/07 NS	SW846 7471A ²	SW846 7471A ⁵
Nickel	1.8 B	4.6	0.15	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Potassium	638	580	36	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	0.28 U	1.2	0.28	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Silver	0.092 U	1.2	0.092	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Sodium	121 B	580	31	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Thallium	0.58 U	2.3	0.58	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	4.5 B	5.8	0.14	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	7.3	2.3	0.46	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA3252
- (2) Instrument QC Batch: MA3262
- (3) Instrument QC Batch: MA3269
- (4) Prep QC Batch: MP6962
- (5) Prep QC Batch: MP6997
- (6) Prep QC Batch: MP7011

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

63

3

Client Sample ID:	FR-060	Date Sampled:	11/29/07
Lab Sample ID:	T19891-7	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	84.9
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.3 B	2.0	1.0	mg/kg	1	12/18/07	AFL	SW846 3060A/7196A
Solids, Percent	84.9			%	1	12/04/07 16:35	SS	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

3.10

3

Client Sample ID:	FR-061	Date Sampled:	11/29/07
Lab Sample ID:	T19891-8	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	78.6
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001035.D	1	12/07/07	LJ	n/a	n/a	VM43
Run #2							

	Initial Weight	Final Volume
Run #1	5.25 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0121	0.061	0.0087	mg/kg	J
71-43-2	Benzene	0.0017 U	0.0061	0.0017	mg/kg	
108-86-1	Bromobenzene	0.0015 U	0.0061	0.0015	mg/kg	
74-97-5	Bromochloromethane	0.0017 U	0.0061	0.0017	mg/kg	
75-27-4	Bromodichloromethane	0.0017 U	0.0061	0.0017	mg/kg	
75-25-2	Bromoform	0.0015 U	0.0061	0.0015	mg/kg	
71-36-3	n-Butyl Alcohol	0.061 U	0.061	0.061	mg/kg	
104-51-8	n-Butylbenzene	0.0012 U	0.0061	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0061	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0017 U	0.0061	0.0017	mg/kg	
75-00-3	Chloroethane	0.0017 U	0.0061	0.0017	mg/kg	
67-66-3	Chloroform	0.0015 U	0.0061	0.0015	mg/kg	
95-49-8	o-Chlorotoluene	0.0014 U	0.0061	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	0.0014 U	0.0061	0.0014	mg/kg	
75-15-0	Carbon disulfide	0.0015 U	0.012	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0061	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0014 U	0.0061	0.0014	mg/kg	
75-34-3	1,1-Dichloroethane	0.0016 U	0.0061	0.0016	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0015 U	0.0061	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	0.0014 U	0.0061	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0017 U	0.0061	0.0017	mg/kg	
106-93-4	1,2-Dibromoethane	0.0017 U	0.0061	0.0017	mg/kg	
107-06-2	1,2-Dichloroethane	0.0017 U	0.0061	0.0017	mg/kg	
78-87-5	1,2-Dichloropropane	0.0018 U	0.0061	0.0018	mg/kg	
142-28-9	1,3-Dichloropropane	0.0017 U	0.0061	0.0017	mg/kg	
123-91-1	1,4-Dioxane	0.029 U	0.30	0.029	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0061	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0017 U	0.0061	0.0017	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0013 U	0.0061	0.0013	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0017 U	0.0061	0.0017	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0015 U	0.0061	0.0015	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0016 U	0.0061	0.0016	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.10

3

Client Sample ID:	FR-061	Date Sampled:	11/29/07
Lab Sample ID:	T19891-8	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	78.6
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0016 U	0.0061	0.0016	mg/kg	
100-41-4	Ethylbenzene	0.0015 U	0.0061	0.0015	mg/kg	
60-29-7	Ethyl Ether	0.0061 U	0.0061	0.0061	mg/kg	
110-54-3	Hexane	0.0013 U	0.0061	0.0013	mg/kg	
591-78-6	2-Hexanone	0.0083 U	0.061	0.0083	mg/kg	
87-68-3	Hexachlorobutadiene	0.0014 U	0.0061	0.0014	mg/kg	
98-82-8	Isopropylbenzene	0.0014 U	0.0061	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	0.0015 U	0.0061	0.0015	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0085 U	0.061	0.0085	mg/kg	
74-83-9	Methyl bromide	0.0018 U	0.0061	0.0018	mg/kg	
74-87-3	Methyl chloride	0.0018 U	0.0061	0.0018	mg/kg	
74-95-3	Methylene bromide	0.0024 U	0.0061	0.0024	mg/kg	
75-09-2	Methylene chloride	0.0030 U	0.012	0.0030	mg/kg	
78-93-3	Methyl ethyl ketone	0.0082 U	0.061	0.0082	mg/kg	
103-65-1	n-Propylbenzene	0.0013 U	0.0061	0.0013	mg/kg	
100-42-5	Styrene	0.0015 U	0.0061	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0017 U	0.0061	0.0017	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0015 U	0.0061	0.0015	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0017 U	0.0061	0.0017	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0017 U	0.0061	0.0017	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0015 U	0.0061	0.0015	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0017 U	0.0061	0.0017	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0061	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0013 U	0.0061	0.0013	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0061	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0016 U	0.0061	0.0016	mg/kg	
108-88-3	Toluene	0.0015 U	0.0061	0.0015	mg/kg	
79-01-6	Trichloroethylene	0.0016 U	0.0061	0.0016	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0061	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0016 U	0.0061	0.0016	mg/kg	
108-05-4	Vinyl Acetate	0.0092 U	0.030	0.0092	mg/kg	
1330-20-7	Xylene (total)	0.0046 U	0.018	0.0046	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		68-127%
2037-26-5	Toluene-D8	127%		76-139%
460-00-4	4-Bromofluorobenzene	131%		68-167%
17060-07-0	1,2-Dichloroethane-D4	101%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

3.10

3

Client Sample ID:	FR-061	Date Sampled:	11/29/07
Lab Sample ID:	T19891-8	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	78.6
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24671.D	1	12/06/07	SC	12/03/07	OP8602	EA1535
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.21 U	0.21	0.21	mg/kg	
65-85-0	Benzoic acid	0.053 U	1.1	0.053	mg/kg	
95-57-8	2-Chlorophenol	0.065 U	0.21	0.065	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.048 U	0.21	0.048	mg/kg	
120-83-2	2,4-Dichlorophenol	0.072 U	0.21	0.072	mg/kg	
105-67-9	2,4-Dimethylphenol	0.067 U	0.21	0.067	mg/kg	
51-28-5	2,4-Dinitrophenol	0.072 U	1.1	0.072	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.13 U	0.42	0.13	mg/kg	
95-48-7	2-Methylphenol	0.046 U	0.21	0.046	mg/kg	
	3&4-Methylphenol	0.069 U	0.21	0.069	mg/kg	
100-02-7	4-Nitrophenol	0.083 U	0.21	0.083	mg/kg	
87-86-5	Pentachlorophenol	0.056 U	1.1	0.056	mg/kg	
108-95-2	Phenol	0.085 U	0.21	0.085	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.059 U	0.21	0.059	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.057 U	0.21	0.057	mg/kg	
83-32-9	Acenaphthene	0.051 U	0.21	0.051	mg/kg	
208-96-8	Acenaphthylene	0.057 U	0.21	0.057	mg/kg	
120-12-7	Anthracene	0.069 U	0.21	0.069	mg/kg	
56-55-3	Benzo(a)anthracene	0.142	0.21	0.079	mg/kg	J
50-32-8	Benzo(a)pyrene	0.0985	0.21	0.069	mg/kg	J
205-99-2	Benzo(b)fluoranthene	0.181	0.21	0.089	mg/kg	J
191-24-2	Benzo(g,h,i)perylene	0.12 U	0.21	0.12	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.097 U	0.21	0.097	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.081 U	0.21	0.081	mg/kg	
85-68-7	Butyl benzyl phthalate	0.10 U	0.21	0.10	mg/kg	
100-51-6	Benzyl Alcohol	0.075 U	0.21	0.075	mg/kg	
91-58-7	2-Chloronaphthalene	0.059 U	0.21	0.059	mg/kg	
106-47-8	4-Chloroaniline	0.060 U	0.21	0.060	mg/kg	
86-74-8	Carbazole	0.091 U	0.21	0.091	mg/kg	
218-01-9	Chrysene	0.164	0.21	0.069	mg/kg	J
111-91-1	bis(2-Chloroethoxy)methane	0.079 U	0.21	0.079	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.045 U	0.21	0.045	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-061	Date Sampled:	11/29/07
Lab Sample ID:	T19891-8	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	78.6
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.065 U	0.21	0.065	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.072 U	0.21	0.072	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.066 U	0.21	0.066	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.059 U	0.21	0.059	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.093 U	0.21	0.093	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.055 U	0.21	0.055	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.086 U	0.42	0.086	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.21 U	0.21	0.21	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.21 U	0.21	0.21	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.074 U	0.21	0.074	mg/kg	
132-64-9	Dibenzofuran	0.058 U	0.21	0.058	mg/kg	
122-39-4	Diphenylamine	0.093 U	0.21	0.093	mg/kg	
84-74-2	Di-n-butyl phthalate	0.10 U	0.21	0.10	mg/kg	
117-84-0	Di-n-octyl phthalate	0.19 U	0.21	0.19	mg/kg	
84-66-2	Diethyl phthalate	0.059 U	0.21	0.059	mg/kg	
131-11-3	Dimethyl phthalate	0.052 U	0.21	0.052	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.370	0.21	0.11	mg/kg	
206-44-0	Fluoranthene	0.337	0.21	0.095	mg/kg	
86-73-7	Fluorene	0.064 U	0.21	0.064	mg/kg	
118-74-1	Hexachlorobenzene	0.069 U	0.21	0.069	mg/kg	
87-68-3	Hexachlorobutadiene	0.064 U	0.21	0.064	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.077 U	0.21	0.077	mg/kg	
67-72-1	Hexachloroethane	0.062 U	0.21	0.062	mg/kg	
95-13-6	Indene	1.1 U	1.1	1.1	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.082 U	0.21	0.082	mg/kg	
78-59-1	Isophorone	0.055 U	0.21	0.055	mg/kg	
90-12-0	1-Methylnaphthalene	0.050 U	0.21	0.050	mg/kg	
91-57-6	2-Methylnaphthalene	0.056 U	0.21	0.056	mg/kg	
	6-Methyl Chrysene	0.21 U	0.21	0.21	mg/kg	
88-74-4	2-Nitroaniline	0.055 U	0.21	0.055	mg/kg	
99-09-2	3-Nitroaniline	0.079 U	0.21	0.079	mg/kg	
100-01-6	4-Nitroaniline	0.12 U	0.21	0.12	mg/kg	
91-20-3	Naphthalene	0.051 U	0.21	0.051	mg/kg	
98-95-3	Nitrobenzene	0.059 U	0.21	0.059	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.085 U	0.21	0.085	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.093 U	0.21	0.093	mg/kg	
85-01-8	Phenanthrene	0.147	0.21	0.079	mg/kg	J
129-00-0	Pyrene	0.336	0.21	0.10	mg/kg	
91-22-5	Quinoline	0.21 U	0.21	0.21	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.055 U	0.21	0.055	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

3.10
3

Client Sample ID:	FR-061	Date Sampled:	11/29/07
Lab Sample ID:	T19891-8	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	78.6
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
---------	----------	--------	-----	-----	-------	---

931-17-9	1,3&1,4-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
	1,2-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
98-85-1	1-Phenylethanol	0.21 U	0.21	0.21	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
---------	----------------------	--------	--------	--------

367-12-4	2-Fluorophenol	48%		26-124%
4165-62-2	Phenol-d5	57%		19-106%
118-79-6	2,4,6-Tribromophenol	70%		18-129%
4165-60-0	Nitrobenzene-d5	60%		18-104%
321-60-8	2-Fluorobiphenyl	66%		21-114%
1718-51-0	Terphenyl-d14	84%		24-149%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.10

3

Client Sample ID:	FR-061	Date Sampled:	11/29/07
Lab Sample ID:	T19891-8	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	78.6
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	2710	24	5.2	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Antimony	0.32 U	1.2	0.32	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	0.66 B	1.2	0.24	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Barium	88.9	24	0.072	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	0.049 B	0.60	0.024	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	0.17 B	0.58	0.12	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Calcium	14900	600	2.1	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	5.1	1.2	0.084	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	1.3 B	6.0	0.22	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Copper	10.7	3.0	0.16	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Iron	3820	12	2.7	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Lead	55.8	1.2	0.48	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Magnesium	657	600	1.4	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Manganese	47.3	1.8	0.084	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.0054 B	0.021	0.00082	mg/kg	1	12/08/07	12/08/07 NS	SW846 7471A ²	SW846 7471A ⁵
Nickel	1.7 B	4.6	0.15	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Potassium	465 B	600	37	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	0.29 U	1.2	0.29	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Silver	0.096 U	1.2	0.096	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Sodium	32 U	600	32	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Thallium	0.60 U	2.4	0.60	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	4.1 B	6.0	0.14	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	92.6	2.4	0.48	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA3252
- (2) Instrument QC Batch: MA3262
- (3) Instrument QC Batch: MA3269
- (4) Prep QC Batch: MP6962
- (5) Prep QC Batch: MP6997
- (6) Prep QC Batch: MP7011

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

3.10

3

Client Sample ID:	FR-061	Date Sampled:	11/29/07
Lab Sample ID:	T19891-8	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	78.6
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.0 U	2.0	1.0	mg/kg	1	12/18/07	AFL	SW846 3060A/7196A
Solids, Percent	78.6			%	1	12/04/07 16:35	SS	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

3.11

3

Client Sample ID:	FR-062	Date Sampled:	11/29/07
Lab Sample ID:	T19891-9	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.5
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001036.D	1	12/07/07	LJ	n/a	n/a	VM43
Run #2							

	Initial Weight	Final Volume
Run #1	5.33 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0127	0.058	0.0084	mg/kg	J
71-43-2	Benzene	0.0016 U	0.0058	0.0016	mg/kg	
108-86-1	Bromobenzene	0.0015 U	0.0058	0.0015	mg/kg	
74-97-5	Bromochloromethane	0.0017 U	0.0058	0.0017	mg/kg	
75-27-4	Bromodichloromethane	0.0016 U	0.0058	0.0016	mg/kg	
75-25-2	Bromoform	0.0014 U	0.0058	0.0014	mg/kg	
71-36-3	n-Butyl Alcohol	0.058 U	0.058	0.058	mg/kg	
104-51-8	n-Butylbenzene	0.0011 U	0.0058	0.0011	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0058	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0016 U	0.0058	0.0016	mg/kg	
75-00-3	Chloroethane	0.0017 U	0.0058	0.0017	mg/kg	
67-66-3	Chloroform	0.0015 U	0.0058	0.0015	mg/kg	
95-49-8	o-Chlorotoluene	0.0014 U	0.0058	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	0.0013 U	0.0058	0.0013	mg/kg	
75-15-0	Carbon disulfide	0.0015 U	0.012	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0058	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0013 U	0.0058	0.0013	mg/kg	
75-34-3	1,1-Dichloroethane	0.0015 U	0.0058	0.0015	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0015 U	0.0058	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	0.0014 U	0.0058	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0016 U	0.0058	0.0016	mg/kg	
106-93-4	1,2-Dibromoethane	0.0016 U	0.0058	0.0016	mg/kg	
107-06-2	1,2-Dichloroethane	0.0016 U	0.0058	0.0016	mg/kg	
78-87-5	1,2-Dichloropropane	0.0017 U	0.0058	0.0017	mg/kg	
142-28-9	1,3-Dichloropropane	0.0017 U	0.0058	0.0017	mg/kg	
123-91-1	1,4-Dioxane	0.028 U	0.29	0.028	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0058	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0016 U	0.0058	0.0016	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0012 U	0.0058	0.0012	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0016 U	0.0058	0.0016	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0015 U	0.0058	0.0015	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0015 U	0.0058	0.0015	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.11

3

Client Sample ID:	FR-062	Date Sampled:	11/29/07
Lab Sample ID:	T19891-9	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.5
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0016 U	0.0058	0.0016	mg/kg	
100-41-4	Ethylbenzene	0.0015 U	0.0058	0.0015	mg/kg	
60-29-7	Ethyl Ether	0.0058 U	0.0058	0.0058	mg/kg	
110-54-3	Hexane	0.0012 U	0.0058	0.0012	mg/kg	
591-78-6	2-Hexanone	0.0080 U	0.058	0.0080	mg/kg	
87-68-3	Hexachlorobutadiene	0.0014 U	0.0058	0.0014	mg/kg	
98-82-8	Isopropylbenzene	0.0014 U	0.0058	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	0.0014 U	0.0058	0.0014	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0081 U	0.058	0.0081	mg/kg	
74-83-9	Methyl bromide	0.0017 U	0.0058	0.0017	mg/kg	
74-87-3	Methyl chloride	0.0017 U	0.0058	0.0017	mg/kg	
74-95-3	Methylene bromide	0.0023 U	0.0058	0.0023	mg/kg	
75-09-2	Methylene chloride	0.0029 U	0.012	0.0029	mg/kg	
78-93-3	Methyl ethyl ketone	0.0079 U	0.058	0.0079	mg/kg	
103-65-1	n-Propylbenzene	0.0013 U	0.0058	0.0013	mg/kg	
100-42-5	Styrene	0.0015 U	0.0058	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0016 U	0.0058	0.0016	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0014 U	0.0058	0.0014	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0017 U	0.0058	0.0017	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0016 U	0.0058	0.0016	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0014 U	0.0058	0.0014	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0016 U	0.0058	0.0016	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0058	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0013 U	0.0058	0.0013	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0058	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0015 U	0.0058	0.0015	mg/kg	
108-88-3	Toluene	0.0015 U	0.0058	0.0015	mg/kg	
79-01-6	Trichloroethylene	0.0015 U	0.0058	0.0015	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0058	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0016 U	0.0058	0.0016	mg/kg	
108-05-4	Vinyl Acetate	0.0088 U	0.029	0.0088	mg/kg	
1330-20-7	Xylene (total)	0.0044 U	0.017	0.0044	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		68-127%
2037-26-5	Toluene-D8	123%		76-139%
460-00-4	4-Bromofluorobenzene	122%		68-167%
17060-07-0	1,2-Dichloroethane-D4	102%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

3.11

3

Client Sample ID:	FR-062	Date Sampled:	11/29/07
Lab Sample ID:	T19891-9	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.5
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24610.D	1	12/03/07	SC	12/03/07	OP8602	EA1532
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.21 U	0.21	0.21	mg/kg	
65-85-0	Benzoic acid	0.052 U	1.0	0.052	mg/kg	
95-57-8	2-Chlorophenol	0.063 U	0.21	0.063	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.047 U	0.21	0.047	mg/kg	
120-83-2	2,4-Dichlorophenol	0.070 U	0.21	0.070	mg/kg	
105-67-9	2,4-Dimethylphenol	0.066 U	0.21	0.066	mg/kg	
51-28-5	2,4-Dinitrophenol	0.070 U	1.0	0.070	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.13 U	0.41	0.13	mg/kg	
95-48-7	2-Methylphenol	0.045 U	0.21	0.045	mg/kg	
	3&4-Methylphenol	0.068 U	0.21	0.068	mg/kg	
100-02-7	4-Nitrophenol	0.081 U	0.21	0.081	mg/kg	
87-86-5	Pentachlorophenol	0.054 U	1.0	0.054	mg/kg	
108-95-2	Phenol	0.083 U	0.21	0.083	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.058 U	0.21	0.058	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.055 U	0.21	0.055	mg/kg	
83-32-9	Acenaphthene	0.050 U	0.21	0.050	mg/kg	
208-96-8	Acenaphthylene	0.056 U	0.21	0.056	mg/kg	
120-12-7	Anthracene	0.067 U	0.21	0.067	mg/kg	
56-55-3	Benzo(a)anthracene	0.077 U	0.21	0.077	mg/kg	
50-32-8	Benzo(a)pyrene	0.067 U	0.21	0.067	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.087 U	0.21	0.087	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.21	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.095 U	0.21	0.095	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.079 U	0.21	0.079	mg/kg	
85-68-7	Butyl benzyl phthalate	0.099 U	0.21	0.099	mg/kg	
100-51-6	Benzyl Alcohol	0.073 U	0.21	0.073	mg/kg	
91-58-7	2-Chloronaphthalene	0.057 U	0.21	0.057	mg/kg	
106-47-8	4-Chloroaniline	0.058 U	0.21	0.058	mg/kg	
86-74-8	Carbazole	0.089 U	0.21	0.089	mg/kg	
218-01-9	Chrysene	0.068 U	0.21	0.068	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.077 U	0.21	0.077	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.044 U	0.21	0.044	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-062	Date Sampled:	11/29/07
Lab Sample ID:	T19891-9	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.5
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.063 U	0.21	0.063	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.070 U	0.21	0.070	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.064 U	0.21	0.064	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.057 U	0.21	0.057	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.090 U	0.21	0.090	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.053 U	0.21	0.053	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.084 U	0.41	0.084	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.21 U	0.21	0.21	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.21 U	0.21	0.21	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.072 U	0.21	0.072	mg/kg	
132-64-9	Dibenzofuran	0.057 U	0.21	0.057	mg/kg	
122-39-4	Diphenylamine	0.090 U	0.21	0.090	mg/kg	
84-74-2	Di-n-butyl phthalate	0.10 U	0.21	0.10	mg/kg	
117-84-0	Di-n-octyl phthalate	0.19 U	0.21	0.19	mg/kg	
84-66-2	Diethyl phthalate	0.057 U	0.21	0.057	mg/kg	
131-11-3	Dimethyl phthalate	0.051 U	0.21	0.051	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.10 U	0.21	0.10	mg/kg	
206-44-0	Fluoranthene	0.093 U	0.21	0.093	mg/kg	
86-73-7	Fluorene	0.063 U	0.21	0.063	mg/kg	
118-74-1	Hexachlorobenzene	0.068 U	0.21	0.068	mg/kg	
87-68-3	Hexachlorobutadiene	0.063 U	0.21	0.063	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.075 U	0.21	0.075	mg/kg	
67-72-1	Hexachloroethane	0.061 U	0.21	0.061	mg/kg	
95-13-6	Indene	1.0 U	1.0	1.0	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.080 U	0.21	0.080	mg/kg	
78-59-1	Isophorone	0.054 U	0.21	0.054	mg/kg	
90-12-0	1-Methylnaphthalene	0.049 U	0.21	0.049	mg/kg	
91-57-6	2-Methylnaphthalene	0.055 U	0.21	0.055	mg/kg	
	6-Methyl Chrysene	0.21 U	0.21	0.21	mg/kg	
88-74-4	2-Nitroaniline	0.054 U	0.21	0.054	mg/kg	
99-09-2	3-Nitroaniline	0.077 U	0.21	0.077	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.21	0.11	mg/kg	
91-20-3	Naphthalene	0.050 U	0.21	0.050	mg/kg	
98-95-3	Nitrobenzene	0.058 U	0.21	0.058	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.083 U	0.21	0.083	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.090 U	0.21	0.090	mg/kg	
85-01-8	Phenanthrene	0.077 U	0.21	0.077	mg/kg	
129-00-0	Pyrene	0.10 U	0.21	0.10	mg/kg	
91-22-5	Quinoline	0.21 U	0.21	0.21	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.054 U	0.21	0.054	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

3.11
3

Client Sample ID:	FR-062	Date Sampled:	11/29/07
Lab Sample ID:	T19891-9	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.5
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
---------	----------	--------	-----	-----	-------	---

931-17-9	1,3&1,4-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
	1,2-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
98-85-1	1-Phenylethanol	0.21 U	0.21	0.21	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
---------	----------------------	--------	--------	--------

367-12-4	2-Fluorophenol	63%		26-124%
4165-62-2	Phenol-d5	72%		19-106%
118-79-6	2,4,6-Tribromophenol	83%		18-129%
4165-60-0	Nitrobenzene-d5	76%		18-104%
321-60-8	2-Fluorobiphenyl	74%		21-114%
1718-51-0	Terphenyl-d14	74%		24-149%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.11
3

Client Sample ID:	FR-062	Date Sampled:	11/29/07
Lab Sample ID:	T19891-9	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.5
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	917	23	5.0	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Antimony	0.31 U	1.1	0.31	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	0.23 U	1.1	0.23	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Barium	7.4 B	23	0.068	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	0.023 U	0.57	0.023	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	0.12 U	0.62	0.12	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Calcium	229 B	570	1.9	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	0.60 B	1.1	0.079	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	0.20 U	5.7	0.20	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Copper	0.39 B	2.8	0.15	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Iron	270	11	2.5	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Lead	1.8	1.1	0.45	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Magnesium	46.4 B	570	1.3	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Manganese	5.5	1.7	0.079	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.00076 U	0.019	0.00076	mg/kg	1	12/08/07	12/08/07 NS	SW846 7471A ²	SW846 7471A ⁵
Nickel	0.16 U	5.0	0.16	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Potassium	63.9 B	570	35	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	0.36 B	1.1	0.27	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Silver	0.091 U	1.1	0.091	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Sodium	30 U	570	30	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Thallium	0.57 U	2.3	0.57	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	1.3 B	5.7	0.14	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	2.1 B	2.3	0.45	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA3252
- (2) Instrument QC Batch: MA3262
- (3) Instrument QC Batch: MA3269
- (4) Prep QC Batch: MP6962
- (5) Prep QC Batch: MP6997
- (6) Prep QC Batch: MP7011

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

3.11

3

Client Sample ID:	FR-062	Date Sampled:	11/29/07
Lab Sample ID:	T19891-9	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.5
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.3 B	2.0	1.0	mg/kg	1	12/18/07	AFL	SW846 3060A/7196A
Solids, Percent	80.5			%	1	12/04/07 16:35	SS	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

3.12

3

Client Sample ID:	FR-063	Date Sampled:	11/29/07
Lab Sample ID:	T19891-10	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0088518.D	1	12/05/07	ZLH	n/a	n/a	VF2790
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0057	0.050	0.0028	mg/l	J
71-43-2	Benzene	0.00023 U	0.0020	0.00023	mg/l	
108-86-1	Bromobenzene	0.00073 U	0.0020	0.00073	mg/l	
74-97-5	Bromochloromethane	0.00064 U	0.0020	0.00064	mg/l	
75-27-4	Bromodichloromethane	0.00033 U	0.0020	0.00033	mg/l	
75-25-2	Bromoform	0.00065 U	0.0020	0.00065	mg/l	
71-36-3	n-Butyl Alcohol	0.0020 U	0.0020		mg/l	
104-51-8	n-Butylbenzene	0.00060 U	0.0020	0.00060	mg/l	
98-06-6	tert-Butylbenzene	0.00055 U	0.0020	0.00055	mg/l	
108-90-7	Chlorobenzene	0.00054 U	0.0020	0.00054	mg/l	
75-00-3	Chloroethane	0.00046 U	0.0020	0.00046	mg/l	
67-66-3	Chloroform	0.00066 U	0.0020	0.00066	mg/l	
95-49-8	o-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
106-43-4	p-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
75-15-0	Carbon disulfide	0.00062 U	0.0020	0.00062	mg/l	
56-23-5	Carbon tetrachloride	0.00052 U	0.0020	0.00052	mg/l	
110-82-7	Cyclohexane	0.00053 U	0.0020	0.00053	mg/l	
75-34-3	1,1-Dichloroethane	0.00052 U	0.0020	0.00052	mg/l	
75-35-4	1,1-Dichloroethylene	0.00068 U	0.0020	0.00068	mg/l	
563-58-6	1,1-Dichloropropene	0.00038 U	0.0020	0.00038	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.0015 U	0.0020	0.0015	mg/l	
106-93-4	1,2-Dibromoethane	0.00068 U	0.0020	0.00068	mg/l	
107-06-2	1,2-Dichloroethane	0.00053 U	0.0020	0.00053	mg/l	
78-87-5	1,2-Dichloropropane	0.00059 U	0.0020	0.00059	mg/l	
142-28-9	1,3-Dichloropropane	0.00061 U	0.0020	0.00061	mg/l	
123-91-1	1,4-Dioxane	0.024 U	0.050	0.024	mg/l	
594-20-7	2,2-Dichloropropane	0.00065 U	0.0020	0.00065	mg/l	
124-48-1	Dibromochloromethane	0.00068 U	0.0020	0.00068	mg/l	
75-71-8	Dichlorodifluoromethane	0.00073 U	0.0020	0.00073	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.00083 U	0.0020	0.00083	mg/l	
10061-01-5	cis-1,3-Dichloropropene	0.00059 U	0.0020	0.00059	mg/l	
156-60-5	trans-1,2-Dichloroethylene	0.00075 U	0.0020	0.00075	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.12

3

Client Sample ID:	FR-063	Date Sampled:	11/29/07	
Lab Sample ID:	T19891-10	Date Received:	11/30/07	
Matrix:	AQ - Water	Percent Solids:	n/a	
Method:	SW846 8260B			
Project:	Falcon Refinery Superfund Site/Ingleside, TX			

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.00061 U	0.0020	0.00061	mg/l	
100-41-4	Ethylbenzene	0.00048 U	0.0020	0.00048	mg/l	
60-29-7	Ethyl Ether	0.010 U	0.010		mg/l	
110-54-3	hexane	0.00061 U	0.0020	0.00061	mg/l	
591-78-6	2-Hexanone	0.0019 U	0.010	0.0019	mg/l	
87-68-3	Hexachlorobutadiene	0.0018 U	0.0020	0.0018	mg/l	
98-82-8	Isopropylbenzene	0.00046 U	0.0020	0.00046	mg/l	
99-87-6	p-Isopropyltoluene	0.00057 U	0.0020	0.00057	mg/l	
108-10-1	4-Methyl-2-pentanone	0.0073 U	0.010	0.0073	mg/l	
74-83-9	Methyl bromide	0.00047 U	0.0020	0.00047	mg/l	
74-87-3	Methyl chloride	0.00060 U	0.0020	0.00060	mg/l	
74-95-3	Methylene bromide	0.0010 U	0.0020	0.0010	mg/l	
75-09-2	Methylene chloride	0.00067 U	0.0050	0.00067	mg/l	
78-93-3	Methyl ethyl ketone	0.0030 U	0.010	0.0030	mg/l	
103-65-1	n-Propylbenzene	0.00053 U	0.0020	0.00053	mg/l	
100-42-5	Styrene	0.00050 U	0.0020	0.00050	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.00052 U	0.0020	0.00052	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00037 U	0.0020	0.00037	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.00046 U	0.0020	0.00046	mg/l	
79-00-5	1,1,2-Trichloroethane	0.00066 U	0.0020	0.00066	mg/l	
87-61-6	1,2,3-Trichlorobenzene	0.00062 U	0.0020	0.00062	mg/l	
96-18-4	1,2,3-Trichloropropane	0.00052 U	0.0020	0.00052	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.00093 U	0.0020	0.00093	mg/l	
95-63-6	1,2,4-Trimethylbenzene	0.00055 U	0.0020	0.00055	mg/l	
108-67-8	1,3,5-Trimethylbenzene	0.00047 U	0.0020	0.00047	mg/l	
127-18-4	Tetrachloroethylene	0.00074 U	0.0020	0.00074	mg/l	
108-88-3	Toluene	0.00054 U	0.0020	0.00054	mg/l	
79-01-6	Trichloroethylene	0.00063 U	0.0020	0.00063	mg/l	
75-69-4	Trichlorofluoromethane	0.00082 U	0.0020	0.00082	mg/l	
75-01-4	Vinyl chloride	0.00032 U	0.0020	0.00032	mg/l	
108-05-4	Vinyl Acetate	0.0021 U	0.010	0.0021	mg/l	
1330-20-7	Xylene (total)	0.0011 U	0.0060	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-125%
17060-07-0	1,2-Dichloroethane-D4	100%		69-128%
2037-26-5	Toluene-D8	100%		80-121%
460-00-4	4-Bromofluorobenzene	102%		69-142%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

3.12

3

Client Sample ID:	FR-063	Date Sampled:	11/29/07
Lab Sample ID:	T19891-10	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H24618.D	1	12/06/07	SC	12/05/07	OP8628	EH1384
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene-thiol	0.010 U	0.010	0.010	mg/l	
65-85-0	Benzoic Acid	0.00059 U	0.010	0.00059	mg/l	
95-57-8	2-Chlorophenol	0.0014 U	0.0051	0.0014	mg/l	
59-50-7	4-Chloro-3-methyl phenol	0.0013 U	0.0051	0.0013	mg/l	
120-83-2	2,4-Dichlorophenol	0.0018 U	0.0051	0.0018	mg/l	
105-67-9	2,4-Dimethylphenol	0.0027 U	0.0051	0.0027	mg/l	
51-28-5	2,4-Dinitrophenol	0.0024 U	0.026	0.0024	mg/l	
534-52-1	4,6-Dinitro-o-cresol	0.0040 U	0.010	0.0040	mg/l	
95-48-7	2-Methylphenol	0.0012 U	0.0051	0.0012	mg/l	
	3&4-Methylphenol	0.0012 U	0.0051	0.0012	mg/l	
100-02-7	4-Nitrophenol	0.0018 U	0.026	0.0018	mg/l	
87-86-5	Pentachlorophenol	0.0041 U	0.026	0.0041	mg/l	
108-95-2	Phenol	0.00053 U	0.0051	0.00053	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.0018 U	0.0051	0.0018	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.0015 U	0.0051	0.0015	mg/l	
83-32-9	Acenaphthene	0.0015 U	0.0051	0.0015	mg/l	
208-96-8	Acenaphthylene	0.0016 U	0.0051	0.0016	mg/l	
120-12-7	Anthracene	0.0018 U	0.0051	0.0018	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.0025 U	0.0051	0.0025	mg/l	
101-55-3	4-Bromophenyl phenyl ether	0.0022 U	0.0051	0.0022	mg/l	
85-68-7	Butyl benzyl phthalate	0.0018 U	0.0051	0.0018	mg/l	
100-51-6	Benzyl Alcohol	0.0019 U	0.0051	0.0019	mg/l	
91-58-7	2-Chloronaphthalene	0.0013 U	0.0051	0.0013	mg/l	
106-47-8	4-Chloroaniline	0.0016 U	0.0051	0.0016	mg/l	
86-74-8	Carbazole	0.0017 U	0.0051	0.0017	mg/l	
218-01-9	Chrysene	0.0013 U	0.0051	0.0013	mg/l	
111-91-1	bis(2-Chloroethoxy)methane	0.0016 U	0.0051	0.0016	mg/l	
111-44-4	bis(2-Chloroethyl)ether	0.0012 U	0.0051	0.0012	mg/l	
7005-72-3	4-Chlorophenyl phenyl ether	0.0015 U	0.0051	0.0015	mg/l	
95-50-1	1,2-Dichlorobenzene	0.0016 U	0.0051	0.0016	mg/l	
541-73-1	1,3-Dichlorobenzene	0.0016 U	0.0051	0.0016	mg/l	
106-46-7	1,4-Dichlorobenzene	0.0016 U	0.0051	0.0016	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-063	Date Sampled:	11/29/07
Lab Sample ID:	T19891-10	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
121-14-2	2,4-Dinitrotoluene	0.0025 U	0.0051	0.0025	mg/l	
606-20-2	2,6-Dinitrotoluene	0.0017 U	0.0051	0.0017	mg/l	
91-94-1	3,3'-Dichlorobenzidine	0.0038 U	0.010	0.0038	mg/l	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.0051 U	0.0051	0.0051	mg/l	
226-36-8	Dibenz(a,h)acridine	0.0010 U	0.0051	0.0010	mg/l	
53-70-3	Dibenzo(a, h)anthracene	0.0013 U	0.0051	0.0013	mg/l	
132-64-9	Dibenzofuran	0.0024 U	0.0051	0.0024	mg/l	
122-39-4	Diphenylamine	0.0020 U	0.0051	0.0020	mg/l	
84-74-2	Di-n-butyl phthalate	0.0016 U	0.0051	0.0016	mg/l	
117-84-0	Di-n-octyl phthalate	0.0013 U	0.0051	0.0013	mg/l	
84-66-2	Diethyl phthalate	0.0011 U	0.0051	0.0011	mg/l	
131-11-3	Dimethyl phthalate	0.0018 U	0.0051	0.0018	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0015 U	0.0051	0.0015	mg/l	
206-44-0	Fluoranthene	0.0016 U	0.0051	0.0016	mg/l	
86-73-7	Fluorene	0.0021 U	0.0051	0.0021	mg/l	
118-74-1	Hexachlorobenzene	0.0019 U	0.0051	0.0019	mg/l	
87-68-3	Hexachlorobutadiene	0.0020 U	0.0051	0.0020	mg/l	
77-47-4	Hexachlorocyclopentadiene	0.0014 U	0.0051	0.0014	mg/l	
67-72-1	Hexachloroethane	0.0017 U	0.0051	0.0017	mg/l	
95-13-6	Indene	0.014 U	0.015	0.014	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0024 U	0.0051	0.0024	mg/l	
78-59-1	Isophorone	0.0012 U	0.0051	0.0012	mg/l	
90-12-0	1-Methylnaphthalene	0.0017 U	0.0051	0.0017	mg/l	
91-57-6	2-Methylnaphthalene	0.0021 U	0.0051	0.0021	mg/l	
	6-Methyl Chrysene	0.0051 U	0.0051	0.0051	mg/l	
88-74-4	2-Nitroaniline	0.0021 U	0.0051	0.0021	mg/l	
99-09-2	3-Nitroaniline	0.0028 U	0.0051	0.0028	mg/l	
100-01-6	4-Nitroaniline	0.0051 U	0.0051	0.0051	mg/l	
91-20-3	Naphthalene	0.0015 U	0.0051	0.0015	mg/l	
98-95-3	Nitrobenzene	0.0014 U	0.0051	0.0014	mg/l	
621-64-7	N-Nitroso-di-n-propylamine	0.0017 U	0.0051	0.0017	mg/l	
86-30-6	N-Nitrosodiphenylamine	0.0020 U	0.0051	0.0020	mg/l	
85-01-8	Phenanthrene	0.0016 U	0.0051	0.0016	mg/l	
129-00-0	Pyrene	0.0012 U	0.0051	0.0012	mg/l	
91-22-5	Quinoline	0.0010 U	0.0051	0.0010	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.0011 U	0.0051	0.0011	mg/l	
98-85-1	1-Phenylethanol	0.0051 U	0.0051	0.0051	mg/l	
931-17-9	1,2-Cyclohexanediol	0.0051 U	0.0051	0.0051	mg/l	
	1,3&1,4-Cyclohexanediol	0.0051 U	0.0051	0.0051	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

3.12
3

Client Sample ID:	FR-063	Date Sampled:	11/29/07
Lab Sample ID:	T19891-10	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		10-66%
4165-62-2	Phenol-d5	26%		10-53%
118-79-6	2,4,6-Tribromophenol	108%		32-128%
4165-60-0	Nitrobenzene-d5	62%		29-115%
321-60-8	2-Fluorobiphenyl	61%		34-113%
1718-51-0	Terphenyl-d14	83%		12-145%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.12

3

Client Sample ID:	FR-063	Date Sampled:	11/29/07
Lab Sample ID:	T19891-10	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C BY SIM	SW846 3510C	
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24692.D	1	12/06/07	SC	12/05/07	OP8629	EA1536
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	MQL	SDL	Units	Q
56-55-3	Benzo(a)anthracene	0.000056 U	0.00020	0.000056	mg/l	
50-32-8	Benzo(a)pyrene	0.00010 U	0.00020	0.00010	mg/l	
205-99-2	Benzo(b)fluoranthene	0.000057 U	0.00020	0.000057	mg/l	
207-08-9	Benzo(k)fluoranthene	0.000047 U	0.00020	0.000047	mg/l	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.12

3

Client Sample ID:	FR-063	Date Sampled:	11/29/07
Lab Sample ID:	T19891-10	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	91.1 B	200	86	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Antimony	2.7 U	5.0	2.7	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Arsenic	2.7 B	5.0	2.7	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Barium	139 B	200	2.4	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Beryllium	0.26 U	5.0	0.26	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Cadmium	1.8 U	4.0	1.8	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Calcium	124000	5000	170	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Chromium	1.5 U	10	1.5	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Cobalt	9.6 U	50	9.6	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Copper	5.9 U	25	5.9	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Iron	909	100	24	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Lead	2.8 U	3.0	2.8	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Magnesium	13300	5000	13	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Manganese	276	15	4.1	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Mercury	0.094 U	0.20	0.094	ug/l	1	12/10/07	12/10/07 NS	SW846 7470A ²	SW846 7470A ⁴
Nickel	2.6 U	40	2.6	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Potassium	4170 B	5000	160	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Selenium	2.3 U	5.0	2.3	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Silver	1.1 U	10	1.1	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Sodium	88000	5000	330	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Thallium	2.7 U	10	2.7	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Vanadium	1.1 B	50	0.94	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Zinc	21.6	20	7.5	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³

(1) Instrument QC Batch: MA3264

(2) Instrument QC Batch: MA3266

(3) Prep QC Batch: MP6972

(4) Prep QC Batch: MP6999

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

3.12

3

Client Sample ID:	FR-063	Date Sampled:	11/29/07
Lab Sample ID:	T19891-10	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.0040 U	0.010	0.0040	mg/l	1	11/30/07 10:05	SS	SW846 7196A

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

3.13

3

Client Sample ID:	FR-064	Date Sampled:	11/29/07
Lab Sample ID:	T19891-11	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.4
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001047.D	1	12/08/07	LJ	n/a	n/a	VM44
Run #2							

	Initial Weight	Final Volume
Run #1	5.20 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0083 U	0.058	0.0083	mg/kg	
71-43-2	Benzene	0.0016 U	0.0058	0.0016	mg/kg	
108-86-1	Bromobenzene	0.0015 U	0.0058	0.0015	mg/kg	
74-97-5	Bromochloromethane	0.0017 U	0.0058	0.0017	mg/kg	
75-27-4	Bromodichloromethane	0.0016 U	0.0058	0.0016	mg/kg	
75-25-2	Bromoform	0.0014 U	0.0058	0.0014	mg/kg	
71-36-3	n-Butyl Alcohol	0.058 U	0.058	0.058	mg/kg	
104-51-8	n-Butylbenzene	0.0011 U	0.0058	0.0011	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0058	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0016 U	0.0058	0.0016	mg/kg	
75-00-3	Chloroethane	0.0016 U	0.0058	0.0016	mg/kg	
67-66-3	Chloroform	0.0014 U	0.0058	0.0014	mg/kg	
95-49-8	o-Chlorotoluene	0.0014 U	0.0058	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	0.0013 U	0.0058	0.0013	mg/kg	
75-15-0	Carbon disulfide	0.0015 U	0.012	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0058	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0013 U	0.0058	0.0013	mg/kg	
75-34-3	1,1-Dichloroethane	0.0015 U	0.0058	0.0015	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0015 U	0.0058	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	0.0014 U	0.0058	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0016 U	0.0058	0.0016	mg/kg	
106-93-4	1,2-Dibromoethane	0.0016 U	0.0058	0.0016	mg/kg	
107-06-2	1,2-Dichloroethane	0.0016 U	0.0058	0.0016	mg/kg	
78-87-5	1,2-Dichloropropane	0.0017 U	0.0058	0.0017	mg/kg	
142-28-9	1,3-Dichloropropane	0.0017 U	0.0058	0.0017	mg/kg	
123-91-1	1,4-Dioxane	0.028 U	0.29	0.028	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0058	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0016 U	0.0058	0.0016	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0012 U	0.0058	0.0012	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0016 U	0.0058	0.0016	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0015 U	0.0058	0.0015	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0015 U	0.0058	0.0015	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.13

3

Client Sample ID:	FR-064	Date Sampled:	11/29/07
Lab Sample ID:	T19891-11	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.4
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0016 U	0.0058	0.0016	mg/kg	
100-41-4	Ethylbenzene	0.0015 U	0.0058	0.0015	mg/kg	
60-29-7	Ethyl Ether	0.0058 U	0.0058	0.0058	mg/kg	
110-54-3	Hexane	0.0012 U	0.0058	0.0012	mg/kg	
591-78-6	2-Hexanone	0.0079 U	0.058	0.0079	mg/kg	
87-68-3	Hexachlorobutadiene	0.0013 U	0.0058	0.0013	mg/kg	
98-82-8	Isopropylbenzene	0.0014 U	0.0058	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	0.0014 U	0.0058	0.0014	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0081 U	0.058	0.0081	mg/kg	
74-83-9	Methyl bromide	0.0017 U	0.0058	0.0017	mg/kg	
74-87-3	Methyl chloride	0.0017 U	0.0058	0.0017	mg/kg	
74-95-3	Methylene bromide	0.0023 U	0.0058	0.0023	mg/kg	
75-09-2	Methylene chloride	0.0028 U	0.012	0.0028	mg/kg	
78-93-3	Methyl ethyl ketone	0.0078 U	0.058	0.0078	mg/kg	
103-65-1	n-Propylbenzene	0.0013 U	0.0058	0.0013	mg/kg	
100-42-5	Styrene	0.0015 U	0.0058	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0016 U	0.0058	0.0016	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0014 U	0.0058	0.0014	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0017 U	0.0058	0.0017	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0016 U	0.0058	0.0016	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0014 U	0.0058	0.0014	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0016 U	0.0058	0.0016	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0058	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0013 U	0.0058	0.0013	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0058	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0015 U	0.0058	0.0015	mg/kg	
108-88-3	Toluene	0.0015 U	0.0058	0.0015	mg/kg	
79-01-6	Trichloroethylene	0.0015 U	0.0058	0.0015	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0058	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0016 U	0.0058	0.0016	mg/kg	
108-05-4	Vinyl Acetate	0.0088 U	0.029	0.0088	mg/kg	
1330-20-7	Xylene (total)	0.0044 U	0.017	0.0044	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		68-127%
2037-26-5	Toluene-D8	122%		76-139%
460-00-4	4-Bromofluorobenzene	124%		68-167%
17060-07-0	1,2-Dichloroethane-D4	99%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

3.13

3

Client Sample ID:	FR-064	Date Sampled:	11/29/07
Lab Sample ID:	T19891-11	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.4
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24611.D	1	12/03/07	SC	12/03/07	OP8602	EA1532
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.20 U	0.20	0.20	mg/kg	
65-85-0	Benzoic acid	0.050 U	1.0	0.050	mg/kg	
95-57-8	2-Chlorophenol	0.061 U	0.20	0.061	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.045 U	0.20	0.045	mg/kg	
120-83-2	2,4-Dichlorophenol	0.067 U	0.20	0.067	mg/kg	
105-67-9	2,4-Dimethylphenol	0.063 U	0.20	0.063	mg/kg	
51-28-5	2,4-Dinitrophenol	0.067 U	1.0	0.067	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.13 U	0.40	0.13	mg/kg	
95-48-7	2-Methylphenol	0.043 U	0.20	0.043	mg/kg	
	3&4-Methylphenol	0.065 U	0.20	0.065	mg/kg	
100-02-7	4-Nitrophenol	0.079 U	0.20	0.079	mg/kg	
87-86-5	Pentachlorophenol	0.053 U	1.0	0.053	mg/kg	
108-95-2	Phenol	0.080 U	0.20	0.080	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.056 U	0.20	0.056	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.053 U	0.20	0.053	mg/kg	
83-32-9	Acenaphthene	0.048 U	0.20	0.048	mg/kg	
208-96-8	Acenaphthylene	0.054 U	0.20	0.054	mg/kg	
120-12-7	Anthracene	0.065 U	0.20	0.065	mg/kg	
56-55-3	Benzo(a)anthracene	0.074 U	0.20	0.074	mg/kg	
50-32-8	Benzo(a)pyrene	0.065 U	0.20	0.065	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.084 U	0.20	0.084	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.20	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.092 U	0.20	0.092	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.076 U	0.20	0.076	mg/kg	
85-68-7	Butyl benzyl phthalate	0.095 U	0.20	0.095	mg/kg	
100-51-6	Benzyl Alcohol	0.071 U	0.20	0.071	mg/kg	
91-58-7	2-Chloronaphthalene	0.055 U	0.20	0.055	mg/kg	
106-47-8	4-Chloroaniline	0.056 U	0.20	0.056	mg/kg	
86-74-8	Carbazole	0.086 U	0.20	0.086	mg/kg	
218-01-9	Chrysene	0.065 U	0.20	0.065	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.075 U	0.20	0.075	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.043 U	0.20	0.043	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

3.13
3

Client Sample ID:	FR-064	Date Sampled:	11/29/07
Lab Sample ID:	T19891-11	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.4
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.061 U	0.20	0.061	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.068 U	0.20	0.068	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.062 U	0.20	0.062	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.055 U	0.20	0.055	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.087 U	0.20	0.087	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.051 U	0.20	0.051	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.081 U	0.40	0.081	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.20 U	0.20	0.20	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.20 U	0.20	0.20	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.069 U	0.20	0.069	mg/kg	
132-64-9	Dibenzofuran	0.055 U	0.20	0.055	mg/kg	
122-39-4	Diphenylamine	0.087 U	0.20	0.087	mg/kg	
84-74-2	Di-n-butyl phthalate	0.098 U	0.20	0.098	mg/kg	
117-84-0	Di-n-octyl phthalate	0.18 U	0.20	0.18	mg/kg	
84-66-2	Diethyl phthalate	0.055 U	0.20	0.055	mg/kg	
131-11-3	Dimethyl phthalate	0.049 U	0.20	0.049	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.099 U	0.20	0.099	mg/kg	
206-44-0	Fluoranthene	0.090 U	0.20	0.090	mg/kg	
86-73-7	Fluorene	0.061 U	0.20	0.061	mg/kg	
118-74-1	Hexachlorobenzene	0.065 U	0.20	0.065	mg/kg	
87-68-3	Hexachlorobutadiene	0.061 U	0.20	0.061	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.072 U	0.20	0.072	mg/kg	
67-72-1	Hexachloroethane	0.059 U	0.20	0.059	mg/kg	
95-13-6	Indene	1.0 U	1.0	1.0	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.077 U	0.20	0.077	mg/kg	
78-59-1	Isophorone	0.052 U	0.20	0.052	mg/kg	
90-12-0	1-Methylnaphthalene	0.047 U	0.20	0.047	mg/kg	
91-57-6	2-Methylnaphthalene	0.053 U	0.20	0.053	mg/kg	
	6-Methyl Chrysene	0.20 U	0.20	0.20	mg/kg	
88-74-4	2-Nitroaniline	0.052 U	0.20	0.052	mg/kg	
99-09-2	3-Nitroaniline	0.075 U	0.20	0.075	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.20	0.11	mg/kg	
91-20-3	Naphthalene	0.048 U	0.20	0.048	mg/kg	
98-95-3	Nitrobenzene	0.056 U	0.20	0.056	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.080 U	0.20	0.080	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.087 U	0.20	0.087	mg/kg	
85-01-8	Phenanthrene	0.074 U	0.20	0.074	mg/kg	
129-00-0	Pyrene	0.097 U	0.20	0.097	mg/kg	
91-22-5	Quinoline	0.20 U	0.20	0.20	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.052 U	0.20	0.052	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

3.13
3

Client Sample ID:	FR-064	Date Sampled:	11/29/07
Lab Sample ID:	T19891-11	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.4
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.20 U	0.20	0.20	mg/kg	
	1,2-Cyclohexanediol	0.20 U	0.20	0.20	mg/kg	
98-85-1	1-Phenylethanol	0.20 U	0.20	0.20	mg/kg	
CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits						
367-12-4	2-Fluorophenol	65%			26-124%	
4165-62-2	Phenol-d5	74%			19-106%	
118-79-6	2,4,6-Tribromophenol	86%			18-129%	
4165-60-0	Nitrobenzene-d5	78%			18-104%	
321-60-8	2-Fluorobiphenyl	78%			21-114%	
1718-51-0	Terphenyl-d14	83%			24-149%	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.13

3

Client Sample ID:	FR-064	Date Sampled:	11/29/07
Lab Sample ID:	T19891-11	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.4
Method:	SW846 8151 SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD69637.D	1	12/04/07	FO	11/30/07	OP8594	GDD1354
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	10.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	MQL	SDL	Units	Q
94-75-7	2,4-D	0.016 U	0.040	0.016	mg/kg	
93-72-1	2,4,5-TP (Silvex)	0.014 U	0.016	0.014	mg/kg	
93-76-5	2,4,5-T	0.0040 U	0.0079	0.0040	mg/kg	
1918-00-9	Dicamba	0.0060 U	0.0079	0.0060	mg/kg	
88-85-7	Dinoseb	0.0052 U	0.0079	0.0052	mg/kg	
75-99-0	Dalapon	0.028 U	0.040	0.028	mg/kg	
120-36-5	Dichloroprop	0.011 U	0.040	0.011	mg/kg	
94-82-6	2,4-DB	0.065 U	0.079	0.065	mg/kg	
93-65-2	MCPP	0.20 U	0.20		mg/kg	
94-74-6	MCPA	0.20 U	0.20		mg/kg	
87-86-5	Pentachlorophenol	0.0012 U	0.0020	0.0012	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	27% ^a		34-179%

(a) Outside control limits due to matrix interference. Confirmed by reanalysis.

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.13

3

Client Sample ID:	FR-064	Date Sampled:	11/29/07
Lab Sample ID:	T19891-11	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.4
Method:	SW846 8081A SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG39128.D	1	12/06/07	FO	12/01/07	OP8595	GGG1210
Run #2							

	Initial Weight	Final Volume
Run #1	31.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	MQL	SDL	Units	Q
309-00-2	Aldrin	0.00046 U	0.0019	0.00046	mg/kg	
319-84-6	alpha-BHC	0.00043 U	0.0019	0.00043	mg/kg	
319-85-7	beta-BHC	0.00062 U	0.0019	0.00062	mg/kg	
319-86-8	delta-BHC	0.00062 U	0.0019	0.00062	mg/kg	
58-89-9	gamma-BHC (Lindane)	0.00085 U	0.0019	0.00085	mg/kg	
5103-71-9	alpha-Chlordane	0.00039 U	0.0019	0.00039	mg/kg	
5103-74-2	gamma-Chlordane	0.00039 U	0.0019	0.00039	mg/kg	
60-57-1	Dieldrin	0.0010 U	0.0039	0.0010	mg/kg	
72-54-8	4,4'-DDD	0.0011 U	0.0039	0.0011	mg/kg	
72-55-9	4,4'-DDE	0.0015 U	0.0039	0.0015	mg/kg	
50-29-3	4,4'-DDT	0.0017 U	0.0039	0.0017	mg/kg	
72-20-8	Endrin	0.0013 U	0.0039	0.0013	mg/kg	
1031-07-8	Endosulfan sulfate	0.0011 U	0.0039	0.0011	mg/kg	
7421-93-4	Endrin aldehyde	0.0016 U	0.0039	0.0016	mg/kg	
53494-70-5	Endrin ketone	0.0010 U	0.0039	0.0010	mg/kg	
959-98-8	Endosulfan-I	0.00054 U	0.0039	0.00054	mg/kg	
33213-65-9	Endosulfan-II	0.00097 U	0.0039	0.00097	mg/kg	
76-44-8	Heptachlor	0.00054 U	0.0019	0.00054	mg/kg	
1024-57-3	Heptachlor epoxide	0.00039 U	0.0019	0.00039	mg/kg	
72-43-5	Methoxychlor	0.0085 U	0.019	0.0085	mg/kg	
8001-35-2	Toxaphene	0.015 U	0.019	0.015	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		26-156%
2051-24-3	Decachlorobiphenyl	91%		14-149%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.13

3

Client Sample ID:	FR-064	Date Sampled:	11/29/07
Lab Sample ID:	T19891-11	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.4
Method:	SW846 8082 SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD69757.D	1	12/07/07	FO	12/01/07	OP8596	GDD1357
Run #2							

	Initial Weight	Final Volume
Run #1	31.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	MQL	SDL	Units	Q
12674-11-2	Aroclor 1016	0.013 U	0.019	0.013	mg/kg	
11104-28-2	Aroclor 1221	0.019 U	0.019	0.019	mg/kg	
11141-16-5	Aroclor 1232	0.011 U	0.019	0.011	mg/kg	
53469-21-9	Aroclor 1242	0.017 U	0.019	0.017	mg/kg	
12672-29-6	Aroclor 1248	0.015 U	0.019	0.015	mg/kg	
11097-69-1	Aroclor 1254	0.016 U	0.019	0.016	mg/kg	
11096-82-5	Aroclor 1260	0.0081 U	0.019	0.0081	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		28-148%
2051-24-3	Decachlorobiphenyl	92%		23-156%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.13

3

Client Sample ID:	FR-064	Date Sampled:	11/29/07
Lab Sample ID:	T19891-11	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.4
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	2590	21	4.5	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Antimony	0.28 U	1.0	0.28	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	0.22 B	1.0	0.21	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Barium	13.7 B	21	0.062	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	0.041 B	0.52	0.021	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	0.10 U	0.52	0.10	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Calcium	420 B	520	1.8	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	1.4	1.0	0.072	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	0.20 B	5.2	0.19	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Copper	1.0 B	2.6	0.13	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Iron	928	10	2.3	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Lead	2.6	1.0	0.41	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Magnesium	182 B	520	1.2	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Manganese	10.0	1.5	0.072	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.00077 U	0.019	0.00077	mg/kg	1	12/08/07	12/08/07 NS	SW846 7471A ²	SW846 7471A ⁵
Nickel	0.27 B	4.2	0.14	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Potassium	244 B	520	32	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	0.25 U	1.0	0.25	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Silver	0.082 U	1.0	0.082	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Sodium	30.8 B	520	28	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Thallium	0.52 U	2.1	0.52	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	2.4 B	5.2	0.12	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	17.2	2.1	0.41	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA3252
- (2) Instrument QC Batch: MA3262
- (3) Instrument QC Batch: MA3269
- (4) Prep QC Batch: MP6962
- (5) Prep QC Batch: MP6997
- (6) Prep QC Batch: MP7011

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

3.13
3

Client Sample ID:	FR-064	Date Sampled:	11/29/07
Lab Sample ID:	T19891-11	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	83.4
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.0 U	2.0	1.0	mg/kg	1	12/18/07	AFL	SW846 3060A/7196A
Solids, Percent	83.4			%	1	12/04/07 16:35	SS	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

3.14

3

Client Sample ID:	FR-065	Date Sampled:	11/29/07
Lab Sample ID:	T19891-12	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.2
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001048.D	1	12/08/07	LJ	n/a	n/a	VM44
Run #2							

	Initial Weight	Final Volume
Run #1	5.18 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0092	0.060	0.0087	mg/kg	J
71-43-2	Benzene	0.0017 U	0.0060	0.0017	mg/kg	
108-86-1	Bromobenzene	0.0015 U	0.0060	0.0015	mg/kg	
74-97-5	Bromochloromethane	0.0017 U	0.0060	0.0017	mg/kg	
75-27-4	Bromodichloromethane	0.0017 U	0.0060	0.0017	mg/kg	
75-25-2	Bromoform	0.0015 U	0.0060	0.0015	mg/kg	
71-36-3	n-Butyl Alcohol	0.060 U	0.060	0.060	mg/kg	
104-51-8	n-Butylbenzene	0.0012 U	0.0060	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0060	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0017 U	0.0060	0.0017	mg/kg	
75-00-3	Chloroethane	0.0017 U	0.0060	0.0017	mg/kg	
67-66-3	Chloroform	0.0015 U	0.0060	0.0015	mg/kg	
95-49-8	o-Chlorotoluene	0.0014 U	0.0060	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	0.0014 U	0.0060	0.0014	mg/kg	
75-15-0	Carbon disulfide	0.0015 U	0.012	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0060	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0014 U	0.0060	0.0014	mg/kg	
75-34-3	1,1-Dichloroethane	0.0016 U	0.0060	0.0016	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0015 U	0.0060	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	0.0014 U	0.0060	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0017 U	0.0060	0.0017	mg/kg	
106-93-4	1,2-Dibromoethane	0.0017 U	0.0060	0.0017	mg/kg	
107-06-2	1,2-Dichloroethane	0.0016 U	0.0060	0.0016	mg/kg	
78-87-5	1,2-Dichloropropane	0.0018 U	0.0060	0.0018	mg/kg	
142-28-9	1,3-Dichloropropane	0.0017 U	0.0060	0.0017	mg/kg	
123-91-1	1,4-Dioxane	0.029 U	0.30	0.029	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0060	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0017 U	0.0060	0.0017	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0013 U	0.0060	0.0013	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0016 U	0.0060	0.0016	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0015 U	0.0060	0.0015	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0016 U	0.0060	0.0016	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.14

3

Client Sample ID:	FR-065	Date Sampled:	11/29/07
Lab Sample ID:	T19891-12	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.2
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0016 U	0.0060	0.0016	mg/kg	
100-41-4	Ethylbenzene	0.0015 U	0.0060	0.0015	mg/kg	
60-29-7	Ethyl Ether	0.0060 U	0.0060	0.0060	mg/kg	
110-54-3	Hexane	0.0013 U	0.0060	0.0013	mg/kg	
591-78-6	2-Hexanone	0.0082 U	0.060	0.0082	mg/kg	
87-68-3	Hexachlorobutadiene	0.0014 U	0.0060	0.0014	mg/kg	
98-82-8	Isopropylbenzene	0.0014 U	0.0060	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	0.0014 U	0.0060	0.0014	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0084 U	0.060	0.0084	mg/kg	
74-83-9	Methyl bromide	0.0018 U	0.0060	0.0018	mg/kg	
74-87-3	Methyl chloride	0.0017 U	0.0060	0.0017	mg/kg	
74-95-3	Methylene bromide	0.0024 U	0.0060	0.0024	mg/kg	
75-09-2	Methylene chloride	0.0029 U	0.012	0.0029	mg/kg	
78-93-3	Methyl ethyl ketone	0.0081 U	0.060	0.0081	mg/kg	
103-65-1	n-Propylbenzene	0.0013 U	0.0060	0.0013	mg/kg	
100-42-5	Styrene	0.0015 U	0.0060	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0017 U	0.0060	0.0017	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0014 U	0.0060	0.0014	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0017 U	0.0060	0.0017	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0017 U	0.0060	0.0017	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0014 U	0.0060	0.0014	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0017 U	0.0060	0.0017	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0060	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0013 U	0.0060	0.0013	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0060	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0016 U	0.0060	0.0016	mg/kg	
108-88-3	Toluene	0.0015 U	0.0060	0.0015	mg/kg	
79-01-6	Trichloroethylene	0.0015 U	0.0060	0.0015	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0060	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0016 U	0.0060	0.0016	mg/kg	
108-05-4	Vinyl Acetate	0.0091 U	0.030	0.0091	mg/kg	
1330-20-7	Xylene (total)	0.0045 U	0.018	0.0045	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		68-127%
2037-26-5	Toluene-D8	123%		76-139%
460-00-4	4-Bromofluorobenzene	119%		68-167%
17060-07-0	1,2-Dichloroethane-D4	99%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

3.14
3

Client Sample ID:	FR-065	Date Sampled:	11/29/07
Lab Sample ID:	T19891-12	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.2
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24612.D	1	12/03/07	SC	12/03/07	OP8602	EA1532
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.21 U	0.21	0.21	mg/kg	
65-85-0	Benzoic acid	0.052 U	1.0	0.052	mg/kg	
95-57-8	2-Chlorophenol	0.064 U	0.21	0.064	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.047 U	0.21	0.047	mg/kg	
120-83-2	2,4-Dichlorophenol	0.070 U	0.21	0.070	mg/kg	
105-67-9	2,4-Dimethylphenol	0.066 U	0.21	0.066	mg/kg	
51-28-5	2,4-Dinitrophenol	0.070 U	1.0	0.070	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.13 U	0.41	0.13	mg/kg	
95-48-7	2-Methylphenol	0.045 U	0.21	0.045	mg/kg	
	3&4-Methylphenol	0.068 U	0.21	0.068	mg/kg	
100-02-7	4-Nitrophenol	0.081 U	0.21	0.081	mg/kg	
87-86-5	Pentachlorophenol	0.054 U	1.0	0.054	mg/kg	
108-95-2	Phenol	0.083 U	0.21	0.083	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.058 U	0.21	0.058	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.055 U	0.21	0.055	mg/kg	
83-32-9	Acenaphthene	0.050 U	0.21	0.050	mg/kg	
208-96-8	Acenaphthylene	0.056 U	0.21	0.056	mg/kg	
120-12-7	Anthracene	0.067 U	0.21	0.067	mg/kg	
56-55-3	Benzo(a)anthracene	0.077 U	0.21	0.077	mg/kg	
50-32-8	Benzo(a)pyrene	0.067 U	0.21	0.067	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.087 U	0.21	0.087	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.21	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.095 U	0.21	0.095	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.079 U	0.21	0.079	mg/kg	
85-68-7	Butyl benzyl phthalate	0.099 U	0.21	0.099	mg/kg	
100-51-6	Benzyl Alcohol	0.073 U	0.21	0.073	mg/kg	
91-58-7	2-Chloronaphthalene	0.057 U	0.21	0.057	mg/kg	
106-47-8	4-Chloroaniline	0.058 U	0.21	0.058	mg/kg	
86-74-8	Carbazole	0.089 U	0.21	0.089	mg/kg	
218-01-9	Chrysene	0.068 U	0.21	0.068	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.077 U	0.21	0.077	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.044 U	0.21	0.044	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

3.14
3

Client Sample ID:	FR-065	Date Sampled:	11/29/07
Lab Sample ID:	T19891-12	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.2
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.063 U	0.21	0.063	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.070 U	0.21	0.070	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.064 U	0.21	0.064	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.057 U	0.21	0.057	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.090 U	0.21	0.090	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.053 U	0.21	0.053	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.084 U	0.41	0.084	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.21 U	0.21	0.21	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.21 U	0.21	0.21	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.072 U	0.21	0.072	mg/kg	
132-64-9	Dibenzofuran	0.057 U	0.21	0.057	mg/kg	
122-39-4	Diphenylamine	0.090 U	0.21	0.090	mg/kg	
84-74-2	Di-n-butyl phthalate	0.10 U	0.21	0.10	mg/kg	
117-84-0	Di-n-octyl phthalate	0.19 U	0.21	0.19	mg/kg	
84-66-2	Diethyl phthalate	0.057 U	0.21	0.057	mg/kg	
131-11-3	Dimethyl phthalate	0.051 U	0.21	0.051	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.10 U	0.21	0.10	mg/kg	
206-44-0	Fluoranthene	0.093 U	0.21	0.093	mg/kg	
86-73-7	Fluorene	0.063 U	0.21	0.063	mg/kg	
118-74-1	Hexachlorobenzene	0.068 U	0.21	0.068	mg/kg	
87-68-3	Hexachlorobutadiene	0.063 U	0.21	0.063	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.075 U	0.21	0.075	mg/kg	
67-72-1	Hexachloroethane	0.061 U	0.21	0.061	mg/kg	
95-13-6	Indene	1.0 U	1.0	1.0	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.080 U	0.21	0.080	mg/kg	
78-59-1	Isophorone	0.054 U	0.21	0.054	mg/kg	
90-12-0	1-Methylnaphthalene	0.049 U	0.21	0.049	mg/kg	
91-57-6	2-Methylnaphthalene	0.055 U	0.21	0.055	mg/kg	
	6-Methyl Chrysene	0.21 U	0.21	0.21	mg/kg	
88-74-4	2-Nitroaniline	0.054 U	0.21	0.054	mg/kg	
99-09-2	3-Nitroaniline	0.077 U	0.21	0.077	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.21	0.11	mg/kg	
91-20-3	Naphthalene	0.050 U	0.21	0.050	mg/kg	
98-95-3	Nitrobenzene	0.058 U	0.21	0.058	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.083 U	0.21	0.083	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.090 U	0.21	0.090	mg/kg	
85-01-8	Phenanthrene	0.077 U	0.21	0.077	mg/kg	
129-00-0	Pyrene	0.10 U	0.21	0.10	mg/kg	
91-22-5	Quinoline	0.21 U	0.21	0.21	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.054 U	0.21	0.054	mg/kg	

U = Not detected SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

3.14
3

Client Sample ID:	FR-065	Date Sampled:	11/29/07
Lab Sample ID:	T19891-12	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.2
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
	1,2-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
98-85-1	1-Phenylethanol	0.21 U	0.21	0.21	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		26-124%
4165-62-2	Phenol-d5	74%		19-106%
118-79-6	2,4,6-Tribromophenol	85%		18-129%
4165-60-0	Nitrobenzene-d5	83%		18-104%
321-60-8	2-Fluorobiphenyl	81%		21-114%
1718-51-0	Terphenyl-d14	93%		24-149%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.14
3

Client Sample ID:	FR-065	Date Sampled:	11/29/07
Lab Sample ID:	T19891-12	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.2
Method:	SW846 8151 SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD69638.D	1	12/04/07	FO	11/30/07	OP8594	GDD1354
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	10.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	MQL	SDL	Units	Q
94-75-7	2,4-D	0.016 U	0.041	0.016	mg/kg	
93-72-1	2,4,5-TP (Silvex)	0.014 U	0.016	0.014	mg/kg	
93-76-5	2,4,5-T	0.0041 U	0.0082	0.0041	mg/kg	
1918-00-9	Dicamba	0.0061 U	0.0082	0.0061	mg/kg	
88-85-7	Dinoseb	0.0053 U	0.0082	0.0053	mg/kg	
75-99-0	Dalapon	0.029 U	0.041	0.029	mg/kg	
120-36-5	Dichloroprop	0.011 U	0.041	0.011	mg/kg	
94-82-6	2,4-DB	0.067 U	0.082	0.067	mg/kg	
93-65-2	MCPP	0.20 U	0.20		mg/kg	
94-74-6	MCPA	0.20 U	0.20		mg/kg	
87-86-5	Pentachlorophenol	0.0012 U	0.0020	0.0012	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	35%		34-179%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.14
3

Client Sample ID:	FR-065	Date Sampled:	11/29/07
Lab Sample ID:	T19891-12	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.2
Method:	SW846 8081A SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG39129.D	1	12/06/07	FO	12/01/07	OP8595	GGG1210
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	MQL	SDL	Units	Q
309-00-2	Aldrin	0.00050 U	0.0021	0.00050	mg/kg	
319-84-6	alpha-BHC	0.00046 U	0.0021	0.00046	mg/kg	
319-85-7	beta-BHC	0.00066 U	0.0021	0.00066	mg/kg	
319-86-8	delta-BHC	0.00066 U	0.0021	0.00066	mg/kg	
58-89-9	gamma-BHC (Lindane)	0.00091 U	0.0021	0.00091	mg/kg	
5103-71-9	alpha-Chlordane	0.00042 U	0.0021	0.00042	mg/kg	
5103-74-2	gamma-Chlordane	0.00042 U	0.0021	0.00042	mg/kg	
60-57-1	Dieldrin	0.0011 U	0.0042	0.0011	mg/kg	
72-54-8	4,4'-DDD	0.0012 U	0.0042	0.0012	mg/kg	
72-55-9	4,4'-DDE	0.0016 U	0.0042	0.0016	mg/kg	
50-29-3	4,4'-DDT	0.0018 U	0.0042	0.0018	mg/kg	
72-20-8	Endrin	0.0014 U	0.0042	0.0014	mg/kg	
1031-07-8	Endosulfan sulfate	0.0012 U	0.0042	0.0012	mg/kg	
7421-93-4	Endrin aldehyde	0.0017 U	0.0042	0.0017	mg/kg	
53494-70-5	Endrin ketone	0.0011 U	0.0042	0.0011	mg/kg	
959-98-8	Endosulfan-I	0.00058 U	0.0042	0.00058	mg/kg	
33213-65-9	Endosulfan-II	0.0010 U	0.0042	0.0010	mg/kg	
76-44-8	Heptachlor	0.00058 U	0.0021	0.00058	mg/kg	
1024-57-3	Heptachlor epoxide	0.00042 U	0.0021	0.00042	mg/kg	
72-43-5	Methoxychlor	0.0091 U	0.021	0.0091	mg/kg	
8001-35-2	Toxaphene	0.016 U	0.021	0.016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%		26-156%
2051-24-3	Decachlorobiphenyl	98%		14-149%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.14

3

Client Sample ID:	FR-065	Date Sampled:	11/29/07
Lab Sample ID:	T19891-12	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.2
Method:	SW846 8082 SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD69758.D	1	12/07/07	FO	12/01/07	OP8596	GDD1357
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	MQL	SDL	Units	Q
12674-11-2	Aroclor 1016	0.014 U	0.021	0.014	mg/kg	
11104-28-2	Aroclor 1221	0.021 U	0.021	0.021	mg/kg	
11141-16-5	Aroclor 1232	0.012 U	0.021	0.012	mg/kg	
53469-21-9	Aroclor 1242	0.018 U	0.021	0.018	mg/kg	
12672-29-6	Aroclor 1248	0.017 U	0.021	0.017	mg/kg	
11097-69-1	Aroclor 1254	0.017 U	0.021	0.017	mg/kg	
11096-82-5	Aroclor 1260	0.0087 U	0.021	0.0087	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		28-148%
2051-24-3	Decachlorobiphenyl	99%		23-156%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.14
3

Client Sample ID:	FR-065	Date Sampled:	11/29/07
Lab Sample ID:	T19891-12	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.2
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	5140	24	5.2	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Antimony	0.32 U	1.2	0.32	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	0.54 B	1.2	0.24	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Barium	25.2	24	0.071	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	0.19 B	0.59	0.024	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	0.12 U	0.61	0.12	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Calcium	1660	590	2.0	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	4.9	1.2	0.083	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	1.1 B	5.9	0.21	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Copper	1.9 B	3.0	0.15	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Iron	2910	12	2.6	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Lead	2.8	1.2	0.47	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Magnesium	829	590	1.4	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Manganese	17.2	1.8	0.083	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.0073 B	0.018	0.00073	mg/kg	1	12/08/07	12/08/07 NS	SW846 7471A ²	SW846 7471A ⁵
Nickel	5.8	4.9	0.16	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Potassium	794	590	37	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	0.28 U	1.2	0.28	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Silver	0.095 U	1.2	0.095	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Sodium	283 B	590	32	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Thallium	0.59 U	2.4	0.59	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	6.9	5.9	0.14	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	11.0	2.4	0.47	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA3252
- (2) Instrument QC Batch: MA3262
- (3) Instrument QC Batch: MA3269
- (4) Prep QC Batch: MP6962
- (5) Prep QC Batch: MP6997
- (6) Prep QC Batch: MP7011

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

3.14
3

Client Sample ID:	FR-065	Date Sampled:	11/29/07
Lab Sample ID:	T19891-12	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.2
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.0 U	2.0	1.0	mg/kg	1	12/18/07	AFL	SW846 3060A/7196A
Solids, Percent	80.2			%	1	12/04/07 16:35	SS	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

3.15
3

Client Sample ID:	FR-066	Date Sampled:	11/29/07
Lab Sample ID:	T19891-13	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0088517.D	1	12/05/07	ZLH	n/a	n/a	VF2790
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0028 U	0.050	0.0028	mg/l	
71-43-2	Benzene	0.00023 U	0.0020	0.00023	mg/l	
108-86-1	Bromobenzene	0.00073 U	0.0020	0.00073	mg/l	
74-97-5	Bromochloromethane	0.00064 U	0.0020	0.00064	mg/l	
75-27-4	Bromodichloromethane	0.00033 U	0.0020	0.00033	mg/l	
75-25-2	Bromoform	0.00065 U	0.0020	0.00065	mg/l	
71-36-3	n-Butyl Alcohol	0.0020 U	0.0020		mg/l	
104-51-8	n-Butylbenzene	0.00060 U	0.0020	0.00060	mg/l	
98-06-6	tert-Butylbenzene	0.00055 U	0.0020	0.00055	mg/l	
108-90-7	Chlorobenzene	0.00054 U	0.0020	0.00054	mg/l	
75-00-3	Chloroethane	0.00046 U	0.0020	0.00046	mg/l	
67-66-3	Chloroform	0.00066 U	0.0020	0.00066	mg/l	
95-49-8	o-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
106-43-4	p-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
75-15-0	Carbon disulfide	0.00062 U	0.0020	0.00062	mg/l	
56-23-5	Carbon tetrachloride	0.00052 U	0.0020	0.00052	mg/l	
110-82-7	Cyclohexane	0.00053 U	0.0020	0.00053	mg/l	
75-34-3	1,1-Dichloroethane	0.00052 U	0.0020	0.00052	mg/l	
75-35-4	1,1-Dichloroethylene	0.00068 U	0.0020	0.00068	mg/l	
563-58-6	1,1-Dichloropropene	0.00038 U	0.0020	0.00038	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.0015 U	0.0020	0.0015	mg/l	
106-93-4	1,2-Dibromoethane	0.00068 U	0.0020	0.00068	mg/l	
107-06-2	1,2-Dichloroethane	0.00053 U	0.0020	0.00053	mg/l	
78-87-5	1,2-Dichloropropane	0.00059 U	0.0020	0.00059	mg/l	
142-28-9	1,3-Dichloropropane	0.00061 U	0.0020	0.00061	mg/l	
123-91-1	1,4-Dioxane	0.024 U	0.050	0.024	mg/l	
594-20-7	2,2-Dichloropropane	0.00065 U	0.0020	0.00065	mg/l	
124-48-1	Dibromochloromethane	0.00068 U	0.0020	0.00068	mg/l	
75-71-8	Dichlorodifluoromethane	0.00073 U	0.0020	0.00073	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.00083 U	0.0020	0.00083	mg/l	
10061-01-5	cis-1,3-Dichloropropene	0.00059 U	0.0020	0.00059	mg/l	
156-60-5	trans-1,2-Dichloroethylene	0.00075 U	0.0020	0.00075	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.15
3

Client Sample ID:	FR-066	Date Sampled:	11/29/07
Lab Sample ID:	T19891-13	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.00061 U	0.0020	0.00061	mg/l	
100-41-4	Ethylbenzene	0.00048 U	0.0020	0.00048	mg/l	
60-29-7	Ethyl Ether	0.010 U	0.010		mg/l	
110-54-3	hexane	0.00061 U	0.0020	0.00061	mg/l	
591-78-6	2-Hexanone	0.0019 U	0.010	0.0019	mg/l	
87-68-3	Hexachlorobutadiene	0.0018 U	0.0020	0.0018	mg/l	
98-82-8	Isopropylbenzene	0.00046 U	0.0020	0.00046	mg/l	
99-87-6	p-Isopropyltoluene	0.00057 U	0.0020	0.00057	mg/l	
108-10-1	4-Methyl-2-pentanone	0.0073 U	0.010	0.0073	mg/l	
74-83-9	Methyl bromide	0.00047 U	0.0020	0.00047	mg/l	
74-87-3	Methyl chloride	0.00060 U	0.0020	0.00060	mg/l	
74-95-3	Methylene bromide	0.0010 U	0.0020	0.0010	mg/l	
75-09-2	Methylene chloride	0.00067 U	0.0050	0.00067	mg/l	
78-93-3	Methyl ethyl ketone	0.0030 U	0.010	0.0030	mg/l	
103-65-1	n-Propylbenzene	0.00053 U	0.0020	0.00053	mg/l	
100-42-5	Styrene	0.00050 U	0.0020	0.00050	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.00052 U	0.0020	0.00052	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00037 U	0.0020	0.00037	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.00046 U	0.0020	0.00046	mg/l	
79-00-5	1,1,2-Trichloroethane	0.00066 U	0.0020	0.00066	mg/l	
87-61-6	1,2,3-Trichlorobenzene	0.00062 U	0.0020	0.00062	mg/l	
96-18-4	1,2,3-Trichloropropane	0.00052 U	0.0020	0.00052	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.00093 U	0.0020	0.00093	mg/l	
95-63-6	1,2,4-Trimethylbenzene	0.00055 U	0.0020	0.00055	mg/l	
108-67-8	1,3,5-Trimethylbenzene	0.00047 U	0.0020	0.00047	mg/l	
127-18-4	Tetrachloroethylene	0.00074 U	0.0020	0.00074	mg/l	
108-88-3	Toluene	0.00054 U	0.0020	0.00054	mg/l	
79-01-6	Trichloroethylene	0.00063 U	0.0020	0.00063	mg/l	
75-69-4	Trichlorofluoromethane	0.00082 U	0.0020	0.00082	mg/l	
75-01-4	Vinyl chloride	0.00032 U	0.0020	0.00032	mg/l	
108-05-4	Vinyl Acetate	0.0021 U	0.010	0.0021	mg/l	
1330-20-7	Xylene (total)	0.0011 U	0.0060	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-125%
17060-07-0	1,2-Dichloroethane-D4	100%		69-128%
2037-26-5	Toluene-D8	100%		80-121%
460-00-4	4-Bromofluorobenzene	101%		69-142%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

3.15
3

Client Sample ID:	FR-066	Date Sampled:	11/29/07
Lab Sample ID:	T19891-13	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H24619.D	1	12/06/07	SC	12/05/07	OP8628	EH1384
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.010 U	0.010	0.010	mg/l	
65-85-0	Benzoic Acid	0.00058 U	0.010	0.00058	mg/l	
95-57-8	2-Chlorophenol	0.0014 U	0.0050	0.0014	mg/l	
59-50-7	4-Chloro-3-methyl phenol	0.0012 U	0.0050	0.0012	mg/l	
120-83-2	2,4-Dichlorophenol	0.0018 U	0.0050	0.0018	mg/l	
105-67-9	2,4-Dimethylphenol	0.0026 U	0.0050	0.0026	mg/l	
51-28-5	2,4-Dinitrophenol	0.0024 U	0.025	0.0024	mg/l	
534-52-1	4,6-Dinitro-o-cresol	0.0039 U	0.010	0.0039	mg/l	
95-48-7	2-Methylphenol	0.0012 U	0.0050	0.0012	mg/l	
	3&4-Methylphenol	0.0011 U	0.0050	0.0011	mg/l	
100-02-7	4-Nitrophenol	0.0017 U	0.025	0.0017	mg/l	
87-86-5	Pentachlorophenol	0.0040 U	0.025	0.0040	mg/l	
108-95-2	Phenol	0.00052 U	0.0050	0.00052	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.0018 U	0.0050	0.0018	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.0015 U	0.0050	0.0015	mg/l	
83-32-9	Acenaphthene	0.0015 U	0.0050	0.0015	mg/l	
208-96-8	Acenaphthylene	0.0016 U	0.0050	0.0016	mg/l	
120-12-7	Anthracene	0.0018 U	0.0050	0.0018	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.0025 U	0.0050	0.0025	mg/l	
101-55-3	4-Bromophenyl phenyl ether	0.0021 U	0.0050	0.0021	mg/l	
85-68-7	Butyl benzyl phthalate	0.0017 U	0.0050	0.0017	mg/l	
100-51-6	Benzyl Alcohol	0.0019 U	0.0050	0.0019	mg/l	
91-58-7	2-Chloronaphthalene	0.0012 U	0.0050	0.0012	mg/l	
106-47-8	4-Chloroaniline	0.0016 U	0.0050	0.0016	mg/l	
86-74-8	Carbazole	0.0017 U	0.0050	0.0017	mg/l	
218-01-9	Chrysene	0.0013 U	0.0050	0.0013	mg/l	
111-91-1	bis(2-Chloroethoxy)methane	0.0016 U	0.0050	0.0016	mg/l	
111-44-4	bis(2-Chloroethyl)ether	0.0012 U	0.0050	0.0012	mg/l	
7005-72-3	4-Chlorophenyl phenyl ether	0.0015 U	0.0050	0.0015	mg/l	
95-50-1	1,2-Dichlorobenzene	0.0016 U	0.0050	0.0016	mg/l	
541-73-1	1,3-Dichlorobenzene	0.0016 U	0.0050	0.0016	mg/l	
106-46-7	1,4-Dichlorobenzene	0.0015 U	0.0050	0.0015	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

3.15
3

Client Sample ID:	FR-066	Date Sampled:	11/29/07
Lab Sample ID:	T19891-13	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
121-14-2	2,4-Dinitrotoluene	0.0024 U	0.0050	0.0024	mg/l	
606-20-2	2,6-Dinitrotoluene	0.0017 U	0.0050	0.0017	mg/l	
91-94-1	3,3'-Dichlorobenzidine	0.0037 U	0.010	0.0037	mg/l	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.0050 U	0.0050	0.0050	mg/l	
226-36-8	Dibenz(a,h)acridine	0.0010 U	0.0050	0.0010	mg/l	
53-70-3	Dibenzo(a, h)anthracene	0.0013 U	0.0050	0.0013	mg/l	
132-64-9	Dibenzofuran	0.0023 U	0.0050	0.0023	mg/l	
122-39-4	Diphenylamine	0.0019 U	0.0050	0.0019	mg/l	
84-74-2	Di-n-butyl phthalate	0.0016 U	0.0050	0.0016	mg/l	
117-84-0	Di-n-octyl phthalate	0.0013 U	0.0050	0.0013	mg/l	
84-66-2	Diethyl phthalate	0.0011 U	0.0050	0.0011	mg/l	
131-11-3	Dimethyl phthalate	0.0018 U	0.0050	0.0018	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0015 U	0.0050	0.0015	mg/l	
206-44-0	Fluoranthene	0.0016 U	0.0050	0.0016	mg/l	
86-73-7	Fluorene	0.0021 U	0.0050	0.0021	mg/l	
118-74-1	Hexachlorobenzene	0.0019 U	0.0050	0.0019	mg/l	
87-68-3	Hexachlorobutadiene	0.0019 U	0.0050	0.0019	mg/l	
77-47-4	Hexachlorocyclopentadiene	0.0014 U	0.0050	0.0014	mg/l	
67-72-1	Hexachloroethane	0.0017 U	0.0050	0.0017	mg/l	
95-13-6	Indene	0.014 U	0.015	0.014	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0024 U	0.0050	0.0024	mg/l	
78-59-1	Isophorone	0.0012 U	0.0050	0.0012	mg/l	
90-12-0	1-Methylnaphthalene	0.0017 U	0.0050	0.0017	mg/l	
91-57-6	2-Methylnaphthalene	0.0020 U	0.0050	0.0020	mg/l	
	6-Methyl Chrysene	0.0050 U	0.0050	0.0050	mg/l	
88-74-4	2-Nitroaniline	0.0021 U	0.0050	0.0021	mg/l	
99-09-2	3-Nitroaniline	0.0027 U	0.0050	0.0027	mg/l	
100-01-6	4-Nitroaniline	0.0050 U	0.0050	0.0050	mg/l	
91-20-3	Naphthalene	0.0015 U	0.0050	0.0015	mg/l	
98-95-3	Nitrobenzene	0.0014 U	0.0050	0.0014	mg/l	
621-64-7	N-Nitroso-di-n-propylamine	0.0017 U	0.0050	0.0017	mg/l	
86-30-6	N-Nitrosodiphenylamine	0.0019 U	0.0050	0.0019	mg/l	
85-01-8	Phenanthrene	0.0016 U	0.0050	0.0016	mg/l	
129-00-0	Pyrene	0.0011 U	0.0050	0.0011	mg/l	
91-22-5	Quinoline	0.0010 U	0.0050	0.0010	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.0010 U	0.0050	0.0010	mg/l	
98-85-1	1-Phenylethanol	0.0050 U	0.0050	0.0050	mg/l	
931-17-9	1,2-Cyclohexanediol	0.0050 U	0.0050	0.0050	mg/l	
	1,3&1,4-Cyclohexanediol	0.0050 U	0.0050	0.0050	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

3.15
3

Client Sample ID:	FR-066	Date Sampled:	11/29/07
Lab Sample ID:	T19891-13	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		10-66%
4165-62-2	Phenol-d5	38%		10-53%
118-79-6	2,4,6-Tribromophenol	117%		32-128%
4165-60-0	Nitrobenzene-d5	79%		29-115%
321-60-8	2-Fluorobiphenyl	82%		34-113%
1718-51-0	Terphenyl-d14	111%		12-145%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.15
3

Client Sample ID:	FR-066	Date Sampled:	11/29/07
Lab Sample ID:	T19891-13	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C BY SIM SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24693.D	1	12/06/07	SC	12/05/07	OP8629	EA1536
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	MQL	SDL	Units	Q
56-55-3	Benzo(a)anthracene	0.000055 U	0.00020	0.000055	mg/l	
50-32-8	Benzo(a)pyrene	0.000099 U	0.00020	0.000099	mg/l	
205-99-2	Benzo(b)fluoranthene	0.000056 U	0.00020	0.000056	mg/l	
207-08-9	Benzo(k)fluoranthene	0.000046 U	0.00020	0.000046	mg/l	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.15
3

Client Sample ID:	FR-066	Date Sampled:	11/29/07
Lab Sample ID:	T19891-13	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	86 U	200	86	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Antimony	2.7 U	5.0	2.7	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Arsenic	2.7 U	5.0	2.7	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Barium	238	200	2.4	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Beryllium	0.26 U	5.0	0.26	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Cadmium	1.8 U	4.0	1.8	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Calcium	111000	5000	170	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Chromium	1.5 U	10	1.5	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Cobalt	9.6 U	50	9.6	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Copper	5.9 U	25	5.9	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Iron	115	100	24	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Lead	2.8 U	3.0	2.8	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Magnesium	42700	5000	13	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Manganese	394	15	4.1	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Mercury	0.094 U	0.20	0.094	ug/l	1	12/10/07	12/10/07 NS	SW846 7470A ²	SW846 7470A ⁴
Nickel	2.6 U	40	2.6	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Potassium	16600	5000	160	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Selenium	2.3 U	5.0	2.3	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Silver	1.1 U	10	1.1	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Sodium	313000	5000	330	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Thallium	3.5 B	10	2.7	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Vanadium	0.94 U	50	0.94	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Zinc	15.5 B	20	7.5	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³

(1) Instrument QC Batch: MA3264

(2) Instrument QC Batch: MA3266

(3) Prep QC Batch: MP6972

(4) Prep QC Batch: MP6999

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

3.15
3

Client Sample ID:	FR-066	Date Sampled:	11/29/07
Lab Sample ID:	T19891-13	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.059	0.010	0.0040	mg/l	1	11/30/07 10:05	SS	SW846 7196A

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

3.16

3

Client Sample ID:	FR-067	Date Sampled:	11/29/07
Lab Sample ID:	T19891-14	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	76.8
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001049.D	1	12/08/07	LJ	n/a	n/a	VM44
Run #2							

	Initial Weight	Final Volume
Run #1	5.19 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0090 U	0.063	0.0090	mg/kg	
71-43-2	Benzene	0.0017 U	0.0063	0.0017	mg/kg	
108-86-1	Bromobenzene	0.0016 U	0.0063	0.0016	mg/kg	
74-97-5	Bromochloromethane	0.0018 U	0.0063	0.0018	mg/kg	
75-27-4	Bromodichloromethane	0.0018 U	0.0063	0.0018	mg/kg	
75-25-2	Bromoform	0.0015 U	0.0063	0.0015	mg/kg	
71-36-3	n-Butyl Alcohol	0.063 U	0.063	0.063	mg/kg	
104-51-8	n-Butylbenzene	0.0012 U	0.0063	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	0.0013 U	0.0063	0.0013	mg/kg	
108-90-7	Chlorobenzene	0.0018 U	0.0063	0.0018	mg/kg	
75-00-3	Chloroethane	0.0018 U	0.0063	0.0018	mg/kg	
67-66-3	Chloroform	0.0016 U	0.0063	0.0016	mg/kg	
95-49-8	o-Chlorotoluene	0.0015 U	0.0063	0.0015	mg/kg	
106-43-4	p-Chlorotoluene	0.0014 U	0.0063	0.0014	mg/kg	
75-15-0	Carbon disulfide	0.0016 U	0.013	0.0016	mg/kg	
56-23-5	Carbon tetrachloride	0.0014 U	0.0063	0.0014	mg/kg	
110-82-7	Cyclohexane	0.0014 U	0.0063	0.0014	mg/kg	
75-34-3	1,1-Dichloroethane	0.0016 U	0.0063	0.0016	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0016 U	0.0063	0.0016	mg/kg	
563-58-6	1,1-Dichloropropene	0.0015 U	0.0063	0.0015	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0018 U	0.0063	0.0018	mg/kg	
106-93-4	1,2-Dibromoethane	0.0018 U	0.0063	0.0018	mg/kg	
107-06-2	1,2-Dichloroethane	0.0017 U	0.0063	0.0017	mg/kg	
78-87-5	1,2-Dichloropropane	0.0018 U	0.0063	0.0018	mg/kg	
142-28-9	1,3-Dichloropropane	0.0018 U	0.0063	0.0018	mg/kg	
123-91-1	1,4-Dioxane	0.030 U	0.31	0.030	mg/kg	
594-20-7	2,2-Dichloropropane	0.0014 U	0.0063	0.0014	mg/kg	
124-48-1	Dibromochloromethane	0.0017 U	0.0063	0.0017	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0013 U	0.0063	0.0013	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0017 U	0.0063	0.0017	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0016 U	0.0063	0.0016	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0016 U	0.0063	0.0016	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.16

3

Client Sample ID:	FR-067	Date Sampled:	11/29/07
Lab Sample ID:	T19891-14	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	76.8
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0017 U	0.0063	0.0017	mg/kg	
100-41-4	Ethylbenzene	0.0016 U	0.0063	0.0016	mg/kg	
60-29-7	Ethyl Ether	0.0063 U	0.0063	0.0063	mg/kg	
110-54-3	Hexane	0.0013 U	0.0063	0.0013	mg/kg	
591-78-6	2-Hexanone	0.0086 U	0.063	0.0086	mg/kg	
87-68-3	Hexachlorobutadiene	0.0015 U	0.0063	0.0015	mg/kg	
98-82-8	Isopropylbenzene	0.0068	0.0063	0.0015	mg/kg	
99-87-6	p-Isopropyltoluene	0.0054	0.0063	0.0015	mg/kg	J
108-10-1	4-Methyl-2-pentanone	0.0088 U	0.063	0.0088	mg/kg	
74-83-9	Methyl bromide	0.0019 U	0.0063	0.0019	mg/kg	
74-87-3	Methyl chloride	0.0018 U	0.0063	0.0018	mg/kg	
74-95-3	Methylene bromide	0.0025 U	0.0063	0.0025	mg/kg	
75-09-2	Methylene chloride	0.0031 U	0.013	0.0031	mg/kg	
78-93-3	Methyl ethyl ketone	0.0085 U	0.063	0.0085	mg/kg	
103-65-1	n-Propylbenzene	0.0014 U	0.0063	0.0014	mg/kg	
100-42-5	Styrene	0.0016 U	0.0063	0.0016	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0018 U	0.0063	0.0018	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0015 U	0.0063	0.0015	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0018 U	0.0063	0.0018	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0017 U	0.0063	0.0017	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0015 U	0.0063	0.0015	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0018 U	0.0063	0.0018	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0013 U	0.0063	0.0013	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0015	0.0063	0.0014	mg/kg	J
108-67-8	1,3,5-Trimethylbenzene	0.0014 U	0.0063	0.0014	mg/kg	
127-18-4	Tetrachloroethylene	0.0017 U	0.0063	0.0017	mg/kg	
108-88-3	Toluene	0.0016 U	0.0063	0.0016	mg/kg	
79-01-6	Trichloroethylene	0.0016 U	0.0063	0.0016	mg/kg	
75-69-4	Trichlorofluoromethane	0.0013 U	0.0063	0.0013	mg/kg	
75-01-4	Vinyl chloride	0.0017 U	0.0063	0.0017	mg/kg	
108-05-4	Vinyl Acetate	0.0095 U	0.031	0.0095	mg/kg	
1330-20-7	Xylene (total)	0.0048	0.019	0.0047	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		68-127%
2037-26-5	Toluene-D8	124%		76-139%
460-00-4	4-Bromofluorobenzene	132%		68-167%
17060-07-0	1,2-Dichloroethane-D4	97%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

3.16

3

Client Sample ID:	FR-067	Date Sampled:	11/29/07
Lab Sample ID:	T19891-14	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	76.8
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24613.D	1	12/03/07	SC	12/03/07	OP8602	EA1532
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.21 U	0.21	0.21	mg/kg	
65-85-0	Benzoic acid	0.054 U	1.1	0.054	mg/kg	
95-57-8	2-Chlorophenol	0.066 U	0.21	0.066	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.049 U	0.21	0.049	mg/kg	
120-83-2	2,4-Dichlorophenol	0.072 U	0.21	0.072	mg/kg	
105-67-9	2,4-Dimethylphenol	0.068 U	0.21	0.068	mg/kg	
51-28-5	2,4-Dinitrophenol	0.072 U	1.1	0.072	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.14 U	0.43	0.14	mg/kg	
95-48-7	2-Methylphenol	0.047 U	0.21	0.047	mg/kg	
	3&4-Methylphenol	0.070 U	0.21	0.070	mg/kg	
100-02-7	4-Nitrophenol	0.084 U	0.21	0.084	mg/kg	
87-86-5	Pentachlorophenol	0.057 U	1.1	0.057	mg/kg	
108-95-2	Phenol	0.086 U	0.21	0.086	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.060 U	0.21	0.060	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.057 U	0.21	0.057	mg/kg	
83-32-9	Acenaphthene	0.052 U	0.21	0.052	mg/kg	
208-96-8	Acenaphthylene	0.058 U	0.21	0.058	mg/kg	
120-12-7	Anthracene	0.070 U	0.21	0.070	mg/kg	
56-55-3	Benzo(a)anthracene	0.080 U	0.21	0.080	mg/kg	
50-32-8	Benzo(a)pyrene	0.070 U	0.21	0.070	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.090 U	0.21	0.090	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.12 U	0.21	0.12	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.099 U	0.21	0.099	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.082 U	0.21	0.082	mg/kg	
85-68-7	Butyl benzyl phthalate	0.10 U	0.21	0.10	mg/kg	
100-51-6	Benzyl Alcohol	0.076 U	0.21	0.076	mg/kg	
91-58-7	2-Chloronaphthalene	0.060 U	0.21	0.060	mg/kg	
106-47-8	4-Chloroaniline	0.060 U	0.21	0.060	mg/kg	
86-74-8	Carbazole	0.092 U	0.21	0.092	mg/kg	
218-01-9	Chrysene	0.070 U	0.21	0.070	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.080 U	0.21	0.080	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.046 U	0.21	0.046	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

3.16
3

Client Sample ID:	FR-067	Date Sampled:	11/29/07
Lab Sample ID:	T19891-14	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	76.8
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.066 U	0.21	0.066	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.073 U	0.21	0.073	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.066 U	0.21	0.066	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.060 U	0.21	0.060	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.094 U	0.21	0.094	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.055 U	0.21	0.055	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.087 U	0.43	0.087	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.21 U	0.21	0.21	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.21 U	0.21	0.21	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.075 U	0.21	0.075	mg/kg	
132-64-9	Dibenzofuran	0.059 U	0.21	0.059	mg/kg	
122-39-4	Diphenylamine	0.094 U	0.21	0.094	mg/kg	
84-74-2	Di-n-butyl phthalate	0.11 U	0.21	0.11	mg/kg	
117-84-0	Di-n-octyl phthalate	0.20 U	0.21	0.20	mg/kg	
84-66-2	Diethyl phthalate	0.060 U	0.21	0.060	mg/kg	
131-11-3	Dimethyl phthalate	0.053 U	0.21	0.053	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.150	0.21	0.11	mg/kg	J
206-44-0	Fluoranthene	0.096 U	0.21	0.096	mg/kg	
86-73-7	Fluorene	0.065 U	0.21	0.065	mg/kg	
118-74-1	Hexachlorobenzene	0.070 U	0.21	0.070	mg/kg	
87-68-3	Hexachlorobutadiene	0.065 U	0.21	0.065	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.078 U	0.21	0.078	mg/kg	
67-72-1	Hexachloroethane	0.063 U	0.21	0.063	mg/kg	
95-13-6	Indene	1.1 U	1.1	1.1	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.083 U	0.21	0.083	mg/kg	
78-59-1	Isophorone	0.056 U	0.21	0.056	mg/kg	
90-12-0	1-Methylnaphthalene	0.051 U	0.21	0.051	mg/kg	
91-57-6	2-Methylnaphthalene	0.057 U	0.21	0.057	mg/kg	
	6-Methyl Chrysene	0.21 U	0.21	0.21	mg/kg	
88-74-4	2-Nitroaniline	0.056 U	0.21	0.056	mg/kg	
99-09-2	3-Nitroaniline	0.080 U	0.21	0.080	mg/kg	
100-01-6	4-Nitroaniline	0.12 U	0.21	0.12	mg/kg	
91-20-3	Naphthalene	0.052 U	0.21	0.052	mg/kg	
98-95-3	Nitrobenzene	0.060 U	0.21	0.060	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.086 U	0.21	0.086	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.094 U	0.21	0.094	mg/kg	
85-01-8	Phenanthrene	0.080 U	0.21	0.080	mg/kg	
129-00-0	Pyrene	0.10 U	0.21	0.10	mg/kg	
91-22-5	Quinoline	0.21 U	0.21	0.21	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.056 U	0.21	0.056	mg/kg	

U = Not detected SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

3.16
3

Client Sample ID:	FR-067	Date Sampled:	11/29/07
Lab Sample ID:	T19891-14	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	76.8
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
	1,2-Cyclohexanediol	0.21 U	0.21	0.21	mg/kg	
98-85-1	1-Phenylethanol	0.21 U	0.21	0.21	mg/kg	
CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits						
367-12-4	2-Fluorophenol	60%			26-124%	
4165-62-2	Phenol-d5	68%			19-106%	
118-79-6	2,4,6-Tribromophenol	89%			18-129%	
4165-60-0	Nitrobenzene-d5	77%			18-104%	
321-60-8	2-Fluorobiphenyl	70%			21-114%	
1718-51-0	Terphenyl-d14	101%			24-149%	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.16
3

Client Sample ID:	FR-067	Date Sampled:	11/29/07
Lab Sample ID:	T19891-14	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	76.8
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	5510	23	5.0	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Antimony	0.31 U	1.1	0.31	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	1.1	1.1	0.23	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Barium	103	23	0.069	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	0.14 B	0.57	0.023	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	0.13 U	0.64	0.13	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Calcium	20200	570	2.0	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	3.9	1.1	0.080	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	1.1 B	5.7	0.21	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Copper	3.3	2.9	0.15	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Iron	3150	11	2.6	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Lead	6.1	1.1	0.46	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Magnesium	2750	570	1.3	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Manganese	104	1.7	0.080	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.0093 B	0.020	0.00078	mg/kg	1	12/08/07	12/08/07 NS	SW846 7471A ²	SW846 7471A ⁵
Nickel	1.5 B	5.1	0.17	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Potassium	1220	570	36	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	0.28 U	1.1	0.28	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Silver	0.092 U	1.1	0.092	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Sodium	2420	570	31	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Thallium	0.57 U	2.3	0.57	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	6.6	5.7	0.14	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	48.0	2.3	0.46	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA3252
- (2) Instrument QC Batch: MA3262
- (3) Instrument QC Batch: MA3269
- (4) Prep QC Batch: MP6962
- (5) Prep QC Batch: MP6997
- (6) Prep QC Batch: MP7011

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

3.16
3

Client Sample ID:	FR-067	Date Sampled:	11/29/07
Lab Sample ID:	T19891-14	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	76.8
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.0 U	2.0	1.0	mg/kg	1	12/18/07	AFL	SW846 3060A/7196A
Solids, Percent	76.8			%	1	12/04/07 16:35	SS	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

3.17

3

Client Sample ID:	FR-068	Date Sampled:	11/29/07
Lab Sample ID:	T19891-15	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	82.7
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001050.D	1	12/08/07	LJ	n/a	n/a	VM44
Run #2							

	Initial Weight	Final Volume
Run #1	5.10 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0085 U	0.059	0.0085	mg/kg	
71-43-2	Benzene	0.0016 U	0.0059	0.0016	mg/kg	
108-86-1	Bromobenzene	0.0015 U	0.0059	0.0015	mg/kg	
74-97-5	Bromochloromethane	0.0017 U	0.0059	0.0017	mg/kg	
75-27-4	Bromodichloromethane	0.0017 U	0.0059	0.0017	mg/kg	
75-25-2	Bromoform	0.0014 U	0.0059	0.0014	mg/kg	
71-36-3	n-Butyl Alcohol	0.059 U	0.059	0.059	mg/kg	
104-51-8	n-Butylbenzene	0.0011 U	0.0059	0.0011	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0059	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0017 U	0.0059	0.0017	mg/kg	
75-00-3	Chloroethane	0.0017 U	0.0059	0.0017	mg/kg	
67-66-3	Chloroform	0.0015 U	0.0059	0.0015	mg/kg	
95-49-8	o-Chlorotoluene	0.0014 U	0.0059	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	0.0013 U	0.0059	0.0013	mg/kg	
75-15-0	Carbon disulfide	0.0015 U	0.012	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0059	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0014 U	0.0059	0.0014	mg/kg	
75-34-3	1,1-Dichloroethane	0.0015 U	0.0059	0.0015	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0015 U	0.0059	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	0.0014 U	0.0059	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0017 U	0.0059	0.0017	mg/kg	
106-93-4	1,2-Dibromoethane	0.0017 U	0.0059	0.0017	mg/kg	
107-06-2	1,2-Dichloroethane	0.0016 U	0.0059	0.0016	mg/kg	
78-87-5	1,2-Dichloropropane	0.0017 U	0.0059	0.0017	mg/kg	
142-28-9	1,3-Dichloropropane	0.0017 U	0.0059	0.0017	mg/kg	
123-91-1	1,4-Dioxane	0.028 U	0.30	0.028	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0059	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0016 U	0.0059	0.0016	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0013 U	0.0059	0.0013	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0016 U	0.0059	0.0016	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0015 U	0.0059	0.0015	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0016 U	0.0059	0.0016	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.17
3

Client Sample ID:	FR-068	Date Sampled:	11/29/07
Lab Sample ID:	T19891-15	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	82.7
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0016 U	0.0059	0.0016	mg/kg	
100-41-4	Ethylbenzene	0.0015 U	0.0059	0.0015	mg/kg	
60-29-7	Ethyl Ether	0.0059 U	0.0059	0.0059	mg/kg	
110-54-3	Hexane	0.0013 U	0.0059	0.0013	mg/kg	
591-78-6	2-Hexanone	0.0081 U	0.059	0.0081	mg/kg	
87-68-3	Hexachlorobutadiene	0.0014 U	0.0059	0.0014	mg/kg	
98-82-8	Isopropylbenzene	0.0014 U	0.0059	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	0.0014 U	0.0059	0.0014	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0083 U	0.059	0.0083	mg/kg	
74-83-9	Methyl bromide	0.0018 U	0.0059	0.0018	mg/kg	
74-87-3	Methyl chloride	0.0017 U	0.0059	0.0017	mg/kg	
74-95-3	Methylene bromide	0.0024 U	0.0059	0.0024	mg/kg	
75-09-2	Methylene chloride	0.0029 U	0.012	0.0029	mg/kg	
78-93-3	Methyl ethyl ketone	0.0080 U	0.059	0.0080	mg/kg	
103-65-1	n-Propylbenzene	0.0013 U	0.0059	0.0013	mg/kg	
100-42-5	Styrene	0.0015 U	0.0059	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0017 U	0.0059	0.0017	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0014 U	0.0059	0.0014	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0017 U	0.0059	0.0017	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0016 U	0.0059	0.0016	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0014 U	0.0059	0.0014	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0017 U	0.0059	0.0017	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0059	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0017	0.0059	0.0013	mg/kg	J
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0059	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0016 U	0.0059	0.0016	mg/kg	
108-88-3	Toluene	0.0015 U	0.0059	0.0015	mg/kg	
79-01-6	Trichloroethylene	0.0015 U	0.0059	0.0015	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0059	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0016 U	0.0059	0.0016	mg/kg	
108-05-4	Vinyl Acetate	0.0090 U	0.030	0.0090	mg/kg	
1330-20-7	Xylene (total)	0.0049	0.018	0.0045	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		68-127%
2037-26-5	Toluene-D8	123%		76-139%
460-00-4	4-Bromofluorobenzene	125%		68-167%
17060-07-0	1,2-Dichloroethane-D4	98%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

3.17

3

Client Sample ID:	FR-068	Date Sampled:	11/29/07
Lab Sample ID:	T19891-15	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	82.7
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24614.D	1	12/03/07	SC	12/03/07	OP8602	EA1532
Run #2							

	Initial Weight	Final Volume
Run #1	31.0 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.20 U	0.20	0.20	mg/kg	
65-85-0	Benzoic acid	0.049 U	0.98	0.049	mg/kg	
95-57-8	2-Chlorophenol	0.060 U	0.20	0.060	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.045 U	0.20	0.045	mg/kg	
120-83-2	2,4-Dichlorophenol	0.066 U	0.20	0.066	mg/kg	
105-67-9	2,4-Dimethylphenol	0.062 U	0.20	0.062	mg/kg	
51-28-5	2,4-Dinitrophenol	0.066 U	0.98	0.066	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.12 U	0.39	0.12	mg/kg	
95-48-7	2-Methylphenol	0.043 U	0.20	0.043	mg/kg	
	3&4-Methylphenol	0.064 U	0.20	0.064	mg/kg	
100-02-7	4-Nitrophenol	0.077 U	0.20	0.077	mg/kg	
87-86-5	Pentachlorophenol	0.052 U	0.98	0.052	mg/kg	
108-95-2	Phenol	0.079 U	0.20	0.079	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.055 U	0.20	0.055	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.052 U	0.20	0.052	mg/kg	
83-32-9	Acenaphthene	0.047 U	0.20	0.047	mg/kg	
208-96-8	Acenaphthylene	0.053 U	0.20	0.053	mg/kg	
120-12-7	Anthracene	0.064 U	0.20	0.064	mg/kg	
56-55-3	Benzo(a)anthracene	0.073 U	0.20	0.073	mg/kg	
50-32-8	Benzo(a)pyrene	0.064 U	0.20	0.064	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.082 U	0.20	0.082	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.20	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.090 U	0.20	0.090	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.075 U	0.20	0.075	mg/kg	
85-68-7	Butyl benzyl phthalate	0.093 U	0.20	0.093	mg/kg	
100-51-6	Benzyl Alcohol	0.069 U	0.20	0.069	mg/kg	
91-58-7	2-Chloronaphthalene	0.054 U	0.20	0.054	mg/kg	
106-47-8	4-Chloroaniline	0.055 U	0.20	0.055	mg/kg	
86-74-8	Carbazole	0.084 U	0.20	0.084	mg/kg	
218-01-9	Chrysene	0.064 U	0.20	0.064	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.073 U	0.20	0.073	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.042 U	0.20	0.042	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-068	Date Sampled:	11/29/07
Lab Sample ID:	T19891-15	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	82.7
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.060 U	0.20	0.060	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.066 U	0.20	0.066	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.061 U	0.20	0.061	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.054 U	0.20	0.054	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.086 U	0.20	0.086	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.050 U	0.20	0.050	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.079 U	0.39	0.079	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.20 U	0.20	0.20	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.20 U	0.20	0.20	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.068 U	0.20	0.068	mg/kg	
132-64-9	Dibenzofuran	0.054 U	0.20	0.054	mg/kg	
122-39-4	Diphenylamine	0.086 U	0.20	0.086	mg/kg	
84-74-2	Di-n-butyl phthalate	0.096 U	0.20	0.096	mg/kg	
117-84-0	Di-n-octyl phthalate	0.18 U	0.20	0.18	mg/kg	
84-66-2	Diethyl phthalate	0.054 U	0.20	0.054	mg/kg	
131-11-3	Dimethyl phthalate	0.048 U	0.20	0.048	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.097 U	0.20	0.097	mg/kg	
206-44-0	Fluoranthene	0.088 U	0.20	0.088	mg/kg	
86-73-7	Fluorene	0.059 U	0.20	0.059	mg/kg	
118-74-1	Hexachlorobenzene	0.064 U	0.20	0.064	mg/kg	
87-68-3	Hexachlorobutadiene	0.059 U	0.20	0.059	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.071 U	0.20	0.071	mg/kg	
67-72-1	Hexachloroethane	0.057 U	0.20	0.057	mg/kg	
95-13-6	Indene	0.98 U	0.98	0.98	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.076 U	0.20	0.076	mg/kg	
78-59-1	Isophorone	0.051 U	0.20	0.051	mg/kg	
90-12-0	1-Methylnaphthalene	0.046 U	0.20	0.046	mg/kg	
91-57-6	2-Methylnaphthalene	0.052 U	0.20	0.052	mg/kg	
	6-Methyl Chrysene	0.20 U	0.20	0.20	mg/kg	
88-74-4	2-Nitroaniline	0.051 U	0.20	0.051	mg/kg	
99-09-2	3-Nitroaniline	0.073 U	0.20	0.073	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.20	0.11	mg/kg	
91-20-3	Naphthalene	0.047 U	0.20	0.047	mg/kg	
98-95-3	Nitrobenzene	0.055 U	0.20	0.055	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.079 U	0.20	0.079	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.086 U	0.20	0.086	mg/kg	
85-01-8	Phenanthrene	0.073 U	0.20	0.073	mg/kg	
129-00-0	Pyrene	0.095 U	0.20	0.095	mg/kg	
91-22-5	Quinoline	0.20 U	0.20	0.20	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.051 U	0.20	0.051	mg/kg	

U = Not detected SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-068	Date Sampled:	11/29/07
Lab Sample ID:	T19891-15	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	82.7
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.20 U	0.20	0.20	mg/kg	
	1,2-Cyclohexanediol	0.20 U	0.20	0.20	mg/kg	
98-85-1	1-Phenylethanol	0.20 U	0.20	0.20	mg/kg	
CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits						
367-12-4	2-Fluorophenol	55%			26-124%	
4165-62-2	Phenol-d5	72%			19-106%	
118-79-6	2,4,6-Tribromophenol	96%			18-129%	
4165-60-0	Nitrobenzene-d5	78%			18-104%	
321-60-8	2-Fluorobiphenyl	72%			21-114%	
1718-51-0	Terphenyl-d14	101%			24-149%	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.17
3

Client Sample ID:	FR-068	Date Sampled:	11/29/07
Lab Sample ID:	T19891-15	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	82.7
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	9150	21	4.7	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Antimony	0.29 U	1.1	0.29	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	1.2	1.1	0.21	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Barium	77.7	21	0.064	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	0.27 B	0.54	0.021	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	0.19 B	0.54	0.11	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Calcium	26200	540	1.8	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	6.1	1.1	0.075	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	1.9 B	5.4	0.19	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Copper	4.1	2.7	0.14	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Iron	4970	11	2.4	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Lead	9.3	1.1	0.43	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Magnesium	3530	540	1.2	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Manganese	146	1.6	0.075	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.054	0.018	0.00070	mg/kg	1	12/08/07	12/08/07 NS	SW846 7471A ²	SW846 7471A ⁵
Nickel	1.8 B	4.3	0.14	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Potassium	1990	540	33	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	0.26 U	1.1	0.26	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Silver	0.086 U	1.1	0.086	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Sodium	2350	540	29	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Thallium	0.54 U	2.1	0.54	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	13.0	5.4	0.13	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	23.6	2.1	0.43	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA3252
- (2) Instrument QC Batch: MA3262
- (3) Instrument QC Batch: MA3269
- (4) Prep QC Batch: MP6962
- (5) Prep QC Batch: MP6997
- (6) Prep QC Batch: MP7011

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

3.17
3

Client Sample ID:	FR-068	Date Sampled:	11/29/07
Lab Sample ID:	T19891-15	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	82.7
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.0 U	2.0	1.0	mg/kg	1	12/18/07	AFL	SW846 3060A/7196A
Solids, Percent	82.7			%	1	12/04/07 16:35	SS	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

3.18

3

Client Sample ID:	FR-069	Date Sampled:	11/29/07
Lab Sample ID:	T19891-16	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.5
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001051.D	1	12/08/07	LJ	n/a	n/a	VM44
Run #2							

	Initial Weight	Final Volume
Run #1	5.16 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0087 U	0.060	0.0087	mg/kg	
71-43-2	Benzene	0.0017 U	0.0060	0.0017	mg/kg	
108-86-1	Bromobenzene	0.0015 U	0.0060	0.0015	mg/kg	
74-97-5	Bromochloromethane	0.0017 U	0.0060	0.0017	mg/kg	
75-27-4	Bromodichloromethane	0.0017 U	0.0060	0.0017	mg/kg	
75-25-2	Bromoform	0.0015 U	0.0060	0.0015	mg/kg	
71-36-3	n-Butyl Alcohol	0.060 U	0.060	0.060	mg/kg	
104-51-8	n-Butylbenzene	0.0012 U	0.0060	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0060	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0017 U	0.0060	0.0017	mg/kg	
75-00-3	Chloroethane	0.0017 U	0.0060	0.0017	mg/kg	
67-66-3	Chloroform	0.0015 U	0.0060	0.0015	mg/kg	
95-49-8	o-Chlorotoluene	0.0014 U	0.0060	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	0.0014 U	0.0060	0.0014	mg/kg	
75-15-0	Carbon disulfide	0.0015 U	0.012	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0060	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0014 U	0.0060	0.0014	mg/kg	
75-34-3	1,1-Dichloroethane	0.0016 U	0.0060	0.0016	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0015 U	0.0060	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	0.0014 U	0.0060	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0017 U	0.0060	0.0017	mg/kg	
106-93-4	1,2-Dibromoethane	0.0017 U	0.0060	0.0017	mg/kg	
107-06-2	1,2-Dichloroethane	0.0016 U	0.0060	0.0016	mg/kg	
78-87-5	1,2-Dichloropropane	0.0018 U	0.0060	0.0018	mg/kg	
142-28-9	1,3-Dichloropropane	0.0017 U	0.0060	0.0017	mg/kg	
123-91-1	1,4-Dioxane	0.029 U	0.30	0.029	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0060	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0017 U	0.0060	0.0017	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0013 U	0.0060	0.0013	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0016 U	0.0060	0.0016	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0015 U	0.0060	0.0015	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0016 U	0.0060	0.0016	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.18

3

Client Sample ID:	FR-069	Date Sampled:	11/29/07
Lab Sample ID:	T19891-16	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.5
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0016 U	0.0060	0.0016	mg/kg	
100-41-4	Ethylbenzene	0.0015 U	0.0060	0.0015	mg/kg	
60-29-7	Ethyl Ether	0.0060 U	0.0060	0.0060	mg/kg	
110-54-3	Hexane	0.0013 U	0.0060	0.0013	mg/kg	
591-78-6	2-Hexanone	0.0082 U	0.060	0.0082	mg/kg	
87-68-3	Hexachlorobutadiene	0.0014 U	0.0060	0.0014	mg/kg	
98-82-8	Isopropylbenzene	0.0014 U	0.0060	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	0.0014 U	0.0060	0.0014	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0084 U	0.060	0.0084	mg/kg	
74-83-9	Methyl bromide	0.0018 U	0.0060	0.0018	mg/kg	
74-87-3	Methyl chloride	0.0017 U	0.0060	0.0017	mg/kg	
74-95-3	Methylene bromide	0.0024 U	0.0060	0.0024	mg/kg	
75-09-2	Methylene chloride	0.0029 U	0.012	0.0029	mg/kg	
78-93-3	Methyl ethyl ketone	0.0081 U	0.060	0.0081	mg/kg	
103-65-1	n-Propylbenzene	0.0013 U	0.0060	0.0013	mg/kg	
100-42-5	Styrene	0.0015 U	0.0060	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0017 U	0.0060	0.0017	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0014 U	0.0060	0.0014	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0017 U	0.0060	0.0017	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0017 U	0.0060	0.0017	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0014 U	0.0060	0.0014	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0017 U	0.0060	0.0017	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0060	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0013 U	0.0060	0.0013	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0060	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0016 U	0.0060	0.0016	mg/kg	
108-88-3	Toluene	0.0015 U	0.0060	0.0015	mg/kg	
79-01-6	Trichloroethylene	0.0015 U	0.0060	0.0015	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0060	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0016 U	0.0060	0.0016	mg/kg	
108-05-4	Vinyl Acetate	0.0091 U	0.030	0.0091	mg/kg	
1330-20-7	Xylene (total)	0.0046 U	0.018	0.0046	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		68-127%
2037-26-5	Toluene-D8	122%		76-139%
460-00-4	4-Bromofluorobenzene	121%		68-167%
17060-07-0	1,2-Dichloroethane-D4	97%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

318

3

Client Sample ID:	FR-069	Date Sampled:	11/29/07
Lab Sample ID:	T19891-16	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.5
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24620.D	1	12/03/07	SC	12/03/07	OP8602	EA1532
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.20 U	0.20	0.20	mg/kg	
65-85-0	Benzoic acid	0.051 U	1.0	0.051	mg/kg	
95-57-8	2-Chlorophenol	0.062 U	0.20	0.062	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.046 U	0.20	0.046	mg/kg	
120-83-2	2,4-Dichlorophenol	0.068 U	0.20	0.068	mg/kg	
105-67-9	2,4-Dimethylphenol	0.064 U	0.20	0.064	mg/kg	
51-28-5	2,4-Dinitrophenol	0.068 U	1.0	0.068	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.13 U	0.40	0.13	mg/kg	
95-48-7	2-Methylphenol	0.044 U	0.20	0.044	mg/kg	
	3&4-Methylphenol	0.066 U	0.20	0.066	mg/kg	
100-02-7	4-Nitrophenol	0.080 U	0.20	0.080	mg/kg	
87-86-5	Pentachlorophenol	0.053 U	1.0	0.053	mg/kg	
108-95-2	Phenol	0.081 U	0.20	0.081	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.057 U	0.20	0.057	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.054 U	0.20	0.054	mg/kg	
83-32-9	Acenaphthene	0.049 U	0.20	0.049	mg/kg	
208-96-8	Acenaphthylene	0.055 U	0.20	0.055	mg/kg	
120-12-7	Anthracene	0.066 U	0.20	0.066	mg/kg	
56-55-3	Benzo(a)anthracene	0.075 U	0.20	0.075	mg/kg	
50-32-8	Benzo(a)pyrene	0.066 U	0.20	0.066	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.085 U	0.20	0.085	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.20	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.093 U	0.20	0.093	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.077 U	0.20	0.077	mg/kg	
85-68-7	Butyl benzyl phthalate	0.097 U	0.20	0.097	mg/kg	
100-51-6	Benzyl Alcohol	0.072 U	0.20	0.072	mg/kg	
91-58-7	2-Chloronaphthalene	0.056 U	0.20	0.056	mg/kg	
106-47-8	4-Chloroaniline	0.057 U	0.20	0.057	mg/kg	
86-74-8	Carbazole	0.087 U	0.20	0.087	mg/kg	
218-01-9	Chrysene	0.066 U	0.20	0.066	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.076 U	0.20	0.076	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.043 U	0.20	0.043	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

3.18

3

Client Sample ID:	FR-069	Date Sampled:	11/29/07
Lab Sample ID:	T19891-16	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.5
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.062 U	0.20	0.062	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.069 U	0.20	0.069	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.063 U	0.20	0.063	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.056 U	0.20	0.056	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.089 U	0.20	0.089	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.052 U	0.20	0.052	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.082 U	0.40	0.082	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.20 U	0.20	0.20	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.20 U	0.20	0.20	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.070 U	0.20	0.070	mg/kg	
132-64-9	Dibenzofuran	0.056 U	0.20	0.056	mg/kg	
122-39-4	Diphenylamine	0.089 U	0.20	0.089	mg/kg	
84-74-2	Di-n-butyl phthalate	0.099 U	0.20	0.099	mg/kg	
117-84-0	Di-n-octyl phthalate	0.19 U	0.20	0.19	mg/kg	
84-66-2	Diethyl phthalate	0.056 U	0.20	0.056	mg/kg	
131-11-3	Dimethyl phthalate	0.050 U	0.20	0.050	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.10 U	0.20	0.10	mg/kg	
206-44-0	Fluoranthene	0.091 U	0.20	0.091	mg/kg	
86-73-7	Fluorene	0.061 U	0.20	0.061	mg/kg	
118-74-1	Hexachlorobenzene	0.066 U	0.20	0.066	mg/kg	
87-68-3	Hexachlorobutadiene	0.061 U	0.20	0.061	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.073 U	0.20	0.073	mg/kg	
67-72-1	Hexachloroethane	0.059 U	0.20	0.059	mg/kg	
95-13-6	Indene	1.0 U	1.0	1.0	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.078 U	0.20	0.078	mg/kg	
78-59-1	Isophorone	0.053 U	0.20	0.053	mg/kg	
90-12-0	1-Methylnaphthalene	0.048 U	0.20	0.048	mg/kg	
91-57-6	2-Methylnaphthalene	0.054 U	0.20	0.054	mg/kg	
	6-Methyl Chrysene	0.20 U	0.20	0.20	mg/kg	
88-74-4	2-Nitroaniline	0.053 U	0.20	0.053	mg/kg	
99-09-2	3-Nitroaniline	0.076 U	0.20	0.076	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.20	0.11	mg/kg	
91-20-3	Naphthalene	0.049 U	0.20	0.049	mg/kg	
98-95-3	Nitrobenzene	0.057 U	0.20	0.057	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.081 U	0.20	0.081	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.089 U	0.20	0.089	mg/kg	
85-01-8	Phenanthrene	0.075 U	0.20	0.075	mg/kg	
129-00-0	Pyrene	0.099 U	0.20	0.099	mg/kg	
91-22-5	Quinoline	0.20 U	0.20	0.20	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.053 U	0.20	0.053	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

3.18

3

Client Sample ID:	FR-069	Date Sampled:	11/29/07
Lab Sample ID:	T19891-16	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.5
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.20 U	0.20	0.20	mg/kg	
	1,2-Cyclohexanediol	0.20 U	0.20	0.20	mg/kg	
98-85-1	1-Phenylethanol	0.20 U	0.20	0.20	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	64%		26-124%
4165-62-2	Phenol-d5	73%		19-106%
118-79-6	2,4,6-Tribromophenol	107%		18-129%
4165-60-0	Nitrobenzene-d5	85%		18-104%
321-60-8	2-Fluorobiphenyl	81%		21-114%
1718-51-0	Terphenyl-d14	117%		24-149%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.18

3

Client Sample ID:	FR-069	Date Sampled:	11/29/07
Lab Sample ID:	T19891-16	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.5
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	40.1	0.13	0.029	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Antimony	0.0018 U	0.0065	0.0018	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	0.0061 B	0.0065	0.0013	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Barium	0.38	0.13	0.00039	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	0.0012 B	0.0033	0.00013	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	0.11 U	0.56	0.11	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Calcium	103	3.3	0.011	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	0.028	0.0065	0.00046	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	0.0071 B	0.033	0.0012	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Copper	0.014 B	0.016	0.00085	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Iron	26.0	0.065	0.015	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Lead	0.042	0.0065	0.0026	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Magnesium	11.2	3.3	0.0075	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Manganese	0.38	0.0098	0.00046	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.0046 B	0.019	0.00075	mg/kg	1	12/08/07	12/08/07 NS	SW846 7471A ²	SW846 7471A ⁵
Nickel	2.2 B	4.5	0.15	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ³	SW846 3050B ⁶
Potassium	9.0	3.3	0.20	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	0.0016 U	0.0065	0.0016	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Silver	0.00052 U	0.0065	0.00052	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Sodium	0.77 B	3.3	0.18	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Thallium	0.0033 U	0.013	0.0033	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	0.050	0.033	0.00078	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	0.23	0.013	0.0026	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA3252
- (2) Instrument QC Batch: MA3262
- (3) Instrument QC Batch: MA3269
- (4) Prep QC Batch: MP6962
- (5) Prep QC Batch: MP6997
- (6) Prep QC Batch: MP7011

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

3.18

3

Client Sample ID:	FR-069	Date Sampled:	11/29/07
Lab Sample ID:	T19891-16	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	80.5
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.0 U	2.0	1.0	mg/kg	1	12/18/07	AFL	SW846 3060A/7196A
Solids, Percent	80.5			%	1	12/04/07 16:35	SS	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

3.19

3

Client Sample ID:	FR-070	Date Sampled:	11/29/07
Lab Sample ID:	T19891-17	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	81.0
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001052.D	1	12/08/07	LJ	n/a	n/a	VM44
Run #2							

	Initial Weight	Final Volume
Run #1	5.08 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0087 U	0.061	0.0087	mg/kg	
71-43-2	Benzene	0.0017 U	0.0061	0.0017	mg/kg	
108-86-1	Bromobenzene	0.0015 U	0.0061	0.0015	mg/kg	
74-97-5	Bromochloromethane	0.0017 U	0.0061	0.0017	mg/kg	
75-27-4	Bromodichloromethane	0.0017 U	0.0061	0.0017	mg/kg	
75-25-2	Bromoform	0.0015 U	0.0061	0.0015	mg/kg	
71-36-3	n-Butyl Alcohol	0.061 U	0.061	0.061	mg/kg	
104-51-8	n-Butylbenzene	0.0012 U	0.0061	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0061	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0017 U	0.0061	0.0017	mg/kg	
75-00-3	Chloroethane	0.0017 U	0.0061	0.0017	mg/kg	
67-66-3	Chloroform	0.0015 U	0.0061	0.0015	mg/kg	
95-49-8	o-Chlorotoluene	0.0014 U	0.0061	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	0.0014 U	0.0061	0.0014	mg/kg	
75-15-0	Carbon disulfide	0.0015 U	0.012	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0061	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0014 U	0.0061	0.0014	mg/kg	
75-34-3	1,1-Dichloroethane	0.0016 U	0.0061	0.0016	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0015 U	0.0061	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	0.0014 U	0.0061	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0017 U	0.0061	0.0017	mg/kg	
106-93-4	1,2-Dibromoethane	0.0017 U	0.0061	0.0017	mg/kg	
107-06-2	1,2-Dichloroethane	0.0017 U	0.0061	0.0017	mg/kg	
78-87-5	1,2-Dichloropropane	0.0018 U	0.0061	0.0018	mg/kg	
142-28-9	1,3-Dichloropropane	0.0017 U	0.0061	0.0017	mg/kg	
123-91-1	1,4-Dioxane	0.029 U	0.30	0.029	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0061	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0017 U	0.0061	0.0017	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0013 U	0.0061	0.0013	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0017 U	0.0061	0.0017	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0015 U	0.0061	0.0015	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0016 U	0.0061	0.0016	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.19

3

Client Sample ID:	FR-070	Date Sampled:	11/29/07
Lab Sample ID:	T19891-17	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	81.0
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
---------	----------	--------	-----	-----	-------	---

10061-02-6	trans-1,3-Dichloropropene	0.0016 U	0.0061	0.0016	mg/kg	
100-41-4	Ethylbenzene	0.0015 U	0.0061	0.0015	mg/kg	
60-29-7	Ethyl Ether	0.0061 U	0.0061	0.0061	mg/kg	
110-54-3	Hexane	0.0013 U	0.0061	0.0013	mg/kg	
591-78-6	2-Hexanone	0.0083 U	0.061	0.0083	mg/kg	
87-68-3	Hexachlorobutadiene	0.0014 U	0.0061	0.0014	mg/kg	
98-82-8	Isopropylbenzene	0.0014 U	0.0061	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	0.0015 U	0.0061	0.0015	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0085 U	0.061	0.0085	mg/kg	
74-83-9	Methyl bromide	0.0018 U	0.0061	0.0018	mg/kg	
74-87-3	Methyl chloride	0.0018 U	0.0061	0.0018	mg/kg	
74-95-3	Methylene bromide	0.0024 U	0.0061	0.0024	mg/kg	
75-09-2	Methylene chloride	0.0030 U	0.012	0.0030	mg/kg	
78-93-3	Methyl ethyl ketone	0.0082 U	0.061	0.0082	mg/kg	
103-65-1	n-Propylbenzene	0.0013 U	0.0061	0.0013	mg/kg	
100-42-5	Styrene	0.0015 U	0.0061	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0017 U	0.0061	0.0017	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0015 U	0.0061	0.0015	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0017 U	0.0061	0.0017	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0017 U	0.0061	0.0017	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0015 U	0.0061	0.0015	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0017 U	0.0061	0.0017	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0061	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0013 U	0.0061	0.0013	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0061	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0016 U	0.0061	0.0016	mg/kg	
108-88-3	Toluene	0.0015 U	0.0061	0.0015	mg/kg	
79-01-6	Trichloroethylene	0.0016 U	0.0061	0.0016	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0061	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0017 U	0.0061	0.0017	mg/kg	
108-05-4	Vinyl Acetate	0.0092 U	0.030	0.0092	mg/kg	
1330-20-7	Xylene (total)	0.0046 U	0.018	0.0046	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		68-127%
2037-26-5	Toluene-D8	121%		76-139%
460-00-4	4-Bromofluorobenzene	120%		68-167%
17060-07-0	1,2-Dichloroethane-D4	99%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

3.19

3

Client Sample ID:	FR-070	Date Sampled:	11/29/07
Lab Sample ID:	T19891-17	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	81.0
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24615.D	1	12/03/07	SC	12/03/07	OP8602	EA1532
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.20 U	0.20	0.20	mg/kg	
65-85-0	Benzoic acid	0.051 U	1.0	0.051	mg/kg	
95-57-8	2-Chlorophenol	0.063 U	0.20	0.063	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.047 U	0.20	0.047	mg/kg	
120-83-2	2,4-Dichlorophenol	0.069 U	0.20	0.069	mg/kg	
105-67-9	2,4-Dimethylphenol	0.065 U	0.20	0.065	mg/kg	
51-28-5	2,4-Dinitrophenol	0.069 U	1.0	0.069	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.13 U	0.41	0.13	mg/kg	
95-48-7	2-Methylphenol	0.044 U	0.20	0.044	mg/kg	
	3&4-Methylphenol	0.067 U	0.20	0.067	mg/kg	
100-02-7	4-Nitrophenol	0.080 U	0.20	0.080	mg/kg	
87-86-5	Pentachlorophenol	0.054 U	1.0	0.054	mg/kg	
108-95-2	Phenol	0.082 U	0.20	0.082	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.057 U	0.20	0.057	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.055 U	0.20	0.055	mg/kg	
83-32-9	Acenaphthene	0.049 U	0.20	0.049	mg/kg	
208-96-8	Acenaphthylene	0.055 U	0.20	0.055	mg/kg	
120-12-7	Anthracene	0.067 U	0.20	0.067	mg/kg	
56-55-3	Benzo(a)anthracene	0.076 U	0.20	0.076	mg/kg	
50-32-8	Benzo(a)pyrene	0.067 U	0.20	0.067	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.086 U	0.20	0.086	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.20	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.094 U	0.20	0.094	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.078 U	0.20	0.078	mg/kg	
85-68-7	Butyl benzyl phthalate	0.098 U	0.20	0.098	mg/kg	
100-51-6	Benzyl Alcohol	0.072 U	0.20	0.072	mg/kg	
91-58-7	2-Chloronaphthalene	0.057 U	0.20	0.057	mg/kg	
106-47-8	4-Chloroaniline	0.058 U	0.20	0.058	mg/kg	
86-74-8	Carbazole	0.088 U	0.20	0.088	mg/kg	
218-01-9	Chrysene	0.067 U	0.20	0.067	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.076 U	0.20	0.076	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.044 U	0.20	0.044	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-070	Date Sampled:	11/29/07
Lab Sample ID:	T19891-17	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	81.0
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.062 U	0.20	0.062	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.069 U	0.20	0.069	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.063 U	0.20	0.063	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.057 U	0.20	0.057	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.089 U	0.20	0.089	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.053 U	0.20	0.053	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.083 U	0.41	0.083	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.20 U	0.20	0.20	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.20 U	0.20	0.20	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.071 U	0.20	0.071	mg/kg	
132-64-9	Dibenzofuran	0.056 U	0.20	0.056	mg/kg	
122-39-4	Diphenylamine	0.089 U	0.20	0.089	mg/kg	
84-74-2	Di-n-butyl phthalate	0.10 U	0.20	0.10	mg/kg	
117-84-0	Di-n-octyl phthalate	0.19 U	0.20	0.19	mg/kg	
84-66-2	Diethyl phthalate	0.057 U	0.20	0.057	mg/kg	
131-11-3	Dimethyl phthalate	0.051 U	0.20	0.051	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.10 U	0.20	0.10	mg/kg	
206-44-0	Fluoranthene	0.092 U	0.20	0.092	mg/kg	
86-73-7	Fluorene	0.062 U	0.20	0.062	mg/kg	
118-74-1	Hexachlorobenzene	0.067 U	0.20	0.067	mg/kg	
87-68-3	Hexachlorobutadiene	0.062 U	0.20	0.062	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.074 U	0.20	0.074	mg/kg	
67-72-1	Hexachloroethane	0.060 U	0.20	0.060	mg/kg	
95-13-6	Indene	1.0 U	1.0	1.0	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.079 U	0.20	0.079	mg/kg	
78-59-1	Isophorone	0.053 U	0.20	0.053	mg/kg	
90-12-0	1-Methylnaphthalene	0.049 U	0.20	0.049	mg/kg	
91-57-6	2-Methylnaphthalene	0.054 U	0.20	0.054	mg/kg	
	6-Methyl Chrysene	0.20 U	0.20	0.20	mg/kg	
88-74-4	2-Nitroaniline	0.053 U	0.20	0.053	mg/kg	
99-09-2	3-Nitroaniline	0.076 U	0.20	0.076	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.20	0.11	mg/kg	
91-20-3	Naphthalene	0.049 U	0.20	0.049	mg/kg	
98-95-3	Nitrobenzene	0.057 U	0.20	0.057	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.082 U	0.20	0.082	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.089 U	0.20	0.089	mg/kg	
85-01-8	Phenanthrene	0.076 U	0.20	0.076	mg/kg	
129-00-0	Pyrene	0.10 U	0.20	0.10	mg/kg	
91-22-5	Quinoline	0.20 U	0.20	0.20	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.053 U	0.20	0.053	mg/kg	

U = Not detected SDL - Sample Detection Limit

MQL = Method Quantitation Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

3.19
3

Client Sample ID:	FR-070	Date Sampled:	11/29/07
Lab Sample ID:	T19891-17	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	81.0
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
931-17-9	1,3&1,4-Cyclohexanediol	0.20 U	0.20	0.20	mg/kg	
	1,2-Cyclohexanediol	0.20 U	0.20	0.20	mg/kg	
98-85-1	1-Phenylethanol	0.20 U	0.20	0.20	mg/kg	
CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits						
367-12-4	2-Fluorophenol	65%			26-124%	
4165-62-2	Phenol-d5	75%			19-106%	
118-79-6	2,4,6-Tribromophenol	93%			18-129%	
4165-60-0	Nitrobenzene-d5	77%			18-104%	
321-60-8	2-Fluorobiphenyl	76%			21-114%	
1718-51-0	Terphenyl-d14	95%			24-149%	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.19

3

Client Sample ID:	FR-070	Date Sampled:	11/29/07
Lab Sample ID:	T19891-17	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	81.0
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	5040	23	5.1	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Antimony	0.31 U	1.2	0.31	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Arsenic	0.55 B	1.2	0.23	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Barium	60.0	23	0.069	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Beryllium	0.14 B	0.58	0.023	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cadmium	0.10 U	0.52	0.10	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ²	SW846 3050B ⁵
Calcium	13500	580	2.0	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Chromium	3.4	1.2	0.081	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Cobalt	0.92 B	5.8	0.21	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Copper	2.0 B	2.9	0.15	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Iron	2970	12	2.6	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Lead	4.0	1.2	0.46	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Magnesium	1390	580	1.3	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Manganese	55.0	1.7	0.081	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Mercury	0.010 B	0.020	0.00078	mg/kg	1	12/12/07	12/12/07 NS	SW846 7471A ³	SW846 7471A ⁶
Nickel	2.2 B	4.2	0.14	mg/kg	1	12/11/07	12/11/07 NS	SW846 6010B ²	SW846 3050B ⁵
Potassium	1050	580	36	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Selenium	0.28 U	1.2	0.28	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Silver	0.093 U	1.2	0.093	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Sodium	129 B	580	31	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Thallium	0.58 U	2.3	0.58	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Vanadium	5.8	5.8	0.14	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴
Zinc	24.1	2.3	0.46	mg/kg	1	12/02/07	12/03/07 NS	SW846 6010B ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA3252
- (2) Instrument QC Batch: MA3269
- (3) Instrument QC Batch: MA3272
- (4) Prep QC Batch: MP6962
- (5) Prep QC Batch: MP7011
- (6) Prep QC Batch: MP7020

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

3.19

3

Client Sample ID:	FR-070	Date Sampled:	11/29/07
Lab Sample ID:	T19891-17	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	81.0
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.0 U	2.0	1.0	mg/kg	1	12/18/07	AFL	SW846 3060A/7196A
Solids, Percent	81			%	1	12/04/07 16:35	SS	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

3.20

3

Client Sample ID:	FR-071	Date Sampled:	11/29/07
Lab Sample ID:	T19891-18	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	84.2
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001053.D	1	12/08/07	LJ	n/a	n/a	VM44
Run #2							

	Initial Weight	Final Volume
Run #1	5.12 g	5.0 ml
Run #2		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0083 U	0.058	0.0083	mg/kg	
71-43-2	Benzene	0.0016 U	0.0058	0.0016	mg/kg	
108-86-1	Bromobenzene	0.0015 U	0.0058	0.0015	mg/kg	
74-97-5	Bromochloromethane	0.0017 U	0.0058	0.0017	mg/kg	
75-27-4	Bromodichloromethane	0.0016 U	0.0058	0.0016	mg/kg	
75-25-2	Bromoform	0.0014 U	0.0058	0.0014	mg/kg	
71-36-3	n-Butyl Alcohol	0.058 U	0.058	0.058	mg/kg	
104-51-8	n-Butylbenzene	0.0011 U	0.0058	0.0011	mg/kg	
98-06-6	tert-Butylbenzene	0.0012 U	0.0058	0.0012	mg/kg	
108-90-7	Chlorobenzene	0.0016 U	0.0058	0.0016	mg/kg	
75-00-3	Chloroethane	0.0016 U	0.0058	0.0016	mg/kg	
67-66-3	Chloroform	0.0014 U	0.0058	0.0014	mg/kg	
95-49-8	o-Chlorotoluene	0.0014 U	0.0058	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	0.0013 U	0.0058	0.0013	mg/kg	
75-15-0	Carbon disulfide	0.0015 U	0.012	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	0.0013 U	0.0058	0.0013	mg/kg	
110-82-7	Cyclohexane	0.0013 U	0.0058	0.0013	mg/kg	
75-34-3	1,1-Dichloroethane	0.0015 U	0.0058	0.0015	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0015 U	0.0058	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	0.0014 U	0.0058	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	0.0016 U	0.0058	0.0016	mg/kg	
106-93-4	1,2-Dibromoethane	0.0016 U	0.0058	0.0016	mg/kg	
107-06-2	1,2-Dichloroethane	0.0016 U	0.0058	0.0016	mg/kg	
78-87-5	1,2-Dichloropropane	0.0017 U	0.0058	0.0017	mg/kg	
142-28-9	1,3-Dichloropropane	0.0017 U	0.0058	0.0017	mg/kg	
123-91-1	1,4-Dioxane	0.028 U	0.29	0.028	mg/kg	
594-20-7	2,2-Dichloropropane	0.0013 U	0.0058	0.0013	mg/kg	
124-48-1	Dibromochloromethane	0.0016 U	0.0058	0.0016	mg/kg	
75-71-8	Dichlorodifluoromethane	0.0012 U	0.0058	0.0012	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0016 U	0.0058	0.0016	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	0.0015 U	0.0058	0.0015	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	0.0015 U	0.0058	0.0015	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.20

3

Client Sample ID:	FR-071	Date Sampled:	11/29/07
Lab Sample ID:	T19891-18	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	84.2
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.0016 U	0.0058	0.0016	mg/kg	
100-41-4	Ethylbenzene	0.0015 U	0.0058	0.0015	mg/kg	
60-29-7	Ethyl Ether	0.0058 U	0.0058	0.0058	mg/kg	
110-54-3	Hexane	0.0012 U	0.0058	0.0012	mg/kg	
591-78-6	2-Hexanone	0.0079 U	0.058	0.0079	mg/kg	
87-68-3	Hexachlorobutadiene	0.0014 U	0.0058	0.0014	mg/kg	
98-82-8	Isopropylbenzene	0.0014 U	0.0058	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	0.0014 U	0.0058	0.0014	mg/kg	
108-10-1	4-Methyl-2-pentanone	0.0081 U	0.058	0.0081	mg/kg	
74-83-9	Methyl bromide	0.0017 U	0.0058	0.0017	mg/kg	
74-87-3	Methyl chloride	0.0017 U	0.0058	0.0017	mg/kg	
74-95-3	Methylene bromide	0.0023 U	0.0058	0.0023	mg/kg	
75-09-2	Methylene chloride	0.0028 U	0.012	0.0028	mg/kg	
78-93-3	Methyl ethyl ketone	0.0078 U	0.058	0.0078	mg/kg	
103-65-1	n-Propylbenzene	0.0013 U	0.0058	0.0013	mg/kg	
100-42-5	Styrene	0.0015 U	0.0058	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	0.0016 U	0.0058	0.0016	mg/kg	
71-55-6	1,1,1-Trichloroethane	0.0014 U	0.0058	0.0014	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	0.0017 U	0.0058	0.0017	mg/kg	
79-00-5	1,1,2-Trichloroethane	0.0016 U	0.0058	0.0016	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	0.0014 U	0.0058	0.0014	mg/kg	
96-18-4	1,2,3-Trichloropropane	0.0016 U	0.0058	0.0016	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.0012 U	0.0058	0.0012	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0013 U	0.0058	0.0013	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0013 U	0.0058	0.0013	mg/kg	
127-18-4	Tetrachloroethylene	0.0015 U	0.0058	0.0015	mg/kg	
108-88-3	Toluene	0.0015 U	0.0058	0.0015	mg/kg	
79-01-6	Trichloroethylene	0.0015 U	0.0058	0.0015	mg/kg	
75-69-4	Trichlorofluoromethane	0.0012 U	0.0058	0.0012	mg/kg	
75-01-4	Vinyl chloride	0.0016 U	0.0058	0.0016	mg/kg	
108-05-4	Vinyl Acetate	0.0088 U	0.029	0.0088	mg/kg	
1330-20-7	Xylene (total)	0.0044 U	0.017	0.0044	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		68-127%
2037-26-5	Toluene-D8	118%		76-139%
460-00-4	4-Bromofluorobenzene	110%		68-167%
17060-07-0	1,2-Dichloroethane-D4	99%		56-121%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

3.20

3

Client Sample ID:	FR-071	Date Sampled:	11/29/07
Lab Sample ID:	T19891-18	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	84.2
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24616.D	1	12/03/07	SC	12/03/07	OP8602	EA1532
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.19 U	0.19	0.19	mg/kg	
65-85-0	Benzoic acid	0.048 U	0.97	0.048	mg/kg	
95-57-8	2-Chlorophenol	0.060 U	0.19	0.060	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	0.044 U	0.19	0.044	mg/kg	
120-83-2	2,4-Dichlorophenol	0.065 U	0.19	0.065	mg/kg	
105-67-9	2,4-Dimethylphenol	0.062 U	0.19	0.062	mg/kg	
51-28-5	2,4-Dinitrophenol	0.065 U	0.97	0.065	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	0.12 U	0.39	0.12	mg/kg	
95-48-7	2-Methylphenol	0.042 U	0.19	0.042	mg/kg	
	3&4-Methylphenol	0.064 U	0.19	0.064	mg/kg	
100-02-7	4-Nitrophenol	0.076 U	0.19	0.076	mg/kg	
87-86-5	Pentachlorophenol	0.051 U	0.97	0.051	mg/kg	
108-95-2	Phenol	0.078 U	0.19	0.078	mg/kg	
95-95-4	2,4,5-Trichlorophenol	0.054 U	0.19	0.054	mg/kg	
88-06-2	2,4,6-Trichlorophenol	0.052 U	0.19	0.052	mg/kg	
83-32-9	Acenaphthene	0.047 U	0.19	0.047	mg/kg	
208-96-8	Acenaphthylene	0.052 U	0.19	0.052	mg/kg	
120-12-7	Anthracene	0.063 U	0.19	0.063	mg/kg	
56-55-3	Benzo(a)anthracene	0.072 U	0.19	0.072	mg/kg	
50-32-8	Benzo(a)pyrene	0.063 U	0.19	0.063	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.082 U	0.19	0.082	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.11 U	0.19	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.089 U	0.19	0.089	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	0.074 U	0.19	0.074	mg/kg	
85-68-7	Butyl benzyl phthalate	0.093 U	0.19	0.093	mg/kg	
100-51-6	Benzyl Alcohol	0.069 U	0.19	0.069	mg/kg	
91-58-7	2-Chloronaphthalene	0.054 U	0.19	0.054	mg/kg	
106-47-8	4-Chloroaniline	0.055 U	0.19	0.055	mg/kg	
86-74-8	Carbazole	0.083 U	0.19	0.083	mg/kg	
218-01-9	Chrysene	0.064 U	0.19	0.064	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	0.072 U	0.19	0.072	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	0.041 U	0.19	0.041	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FR-071	Date Sampled:	11/29/07
Lab Sample ID:	T19891-18	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	84.2
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	0.059 U	0.19	0.059	mg/kg	
95-50-1	1,2-Dichlorobenzene	0.066 U	0.19	0.066	mg/kg	
541-73-1	1,3-Dichlorobenzene	0.060 U	0.19	0.060	mg/kg	
106-46-7	1,4-Dichlorobenzene	0.054 U	0.19	0.054	mg/kg	
121-14-2	2,4-Dinitrotoluene	0.085 U	0.19	0.085	mg/kg	
606-20-2	2,6-Dinitrotoluene	0.050 U	0.19	0.050	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	0.079 U	0.39	0.079	mg/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.19 U	0.19	0.19	mg/kg	
226-36-8	Dibenz(a,h)acridine	0.19 U	0.19	0.19	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.067 U	0.19	0.067	mg/kg	
132-64-9	Dibenzofuran	0.053 U	0.19	0.053	mg/kg	
122-39-4	Diphenylamine	0.085 U	0.19	0.085	mg/kg	
84-74-2	Di-n-butyl phthalate	0.095 U	0.19	0.095	mg/kg	
117-84-0	Di-n-octyl phthalate	0.18 U	0.19	0.18	mg/kg	
84-66-2	Diethyl phthalate	0.054 U	0.19	0.054	mg/kg	
131-11-3	Dimethyl phthalate	0.048 U	0.19	0.048	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.096 U	0.19	0.096	mg/kg	
206-44-0	Fluoranthene	0.087 U	0.19	0.087	mg/kg	
86-73-7	Fluorene	0.059 U	0.19	0.059	mg/kg	
118-74-1	Hexachlorobenzene	0.064 U	0.19	0.064	mg/kg	
87-68-3	Hexachlorobutadiene	0.059 U	0.19	0.059	mg/kg	
77-47-4	Hexachlorocyclopentadiene	0.070 U	0.19	0.070	mg/kg	
67-72-1	Hexachloroethane	0.057 U	0.19	0.057	mg/kg	
95-13-6	Indene	0.97 U	0.97	0.97	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.075 U	0.19	0.075	mg/kg	
78-59-1	Isophorone	0.051 U	0.19	0.051	mg/kg	
90-12-0	1-Methylnaphthalene	0.046 U	0.19	0.046	mg/kg	
91-57-6	2-Methylnaphthalene	0.052 U	0.19	0.052	mg/kg	
	6-Methyl Chrysene	0.19 U	0.19	0.19	mg/kg	
88-74-4	2-Nitroaniline	0.050 U	0.19	0.050	mg/kg	
99-09-2	3-Nitroaniline	0.072 U	0.19	0.072	mg/kg	
100-01-6	4-Nitroaniline	0.11 U	0.19	0.11	mg/kg	
91-20-3	Naphthalene	0.047 U	0.19	0.047	mg/kg	
98-95-3	Nitrobenzene	0.054 U	0.19	0.054	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	0.078 U	0.19	0.078	mg/kg	
86-30-6	N-Nitrosodiphenylamine	0.085 U	0.19	0.085	mg/kg	
85-01-8	Phenanthrene	0.072 U	0.19	0.072	mg/kg	
129-00-0	Pyrene	0.094 U	0.19	0.094	mg/kg	
91-22-5	Quinoline	0.19 U	0.19	0.19	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	0.051 U	0.19	0.051	mg/kg	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

3.20

3

Client Sample ID:	FR-071	Date Sampled:	11/29/07
Lab Sample ID:	T19891-18	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	84.2
Method:	SW846 8270C SW846 3550B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
---------	----------	--------	-----	-----	-------	---

931-17-9	1,3&1,4-Cyclohexanediol	0.19 U	0.19	0.19	mg/kg	
	1,2-Cyclohexanediol	0.19 U	0.19	0.19	mg/kg	
98-85-1	1-Phenylethanol	0.19 U	0.19	0.19	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
---------	----------------------	--------	--------	--------

367-12-4	2-Fluorophenol	60%		26-124%
4165-62-2	Phenol-d5	66%		19-106%
118-79-6	2,4,6-Tribromophenol	84%		18-129%
4165-60-0	Nitrobenzene-d5	73%		18-104%
321-60-8	2-Fluorobiphenyl	71%		21-114%
1718-51-0	Terphenyl-d14	91%		24-149%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.20

3

Client Sample ID:	FR-071	Date Sampled:	11/29/07
Lab Sample ID:	T19891-18	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	84.2
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	2800	22	4.9	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Antimony	0.30 U	1.1	0.30	mg/kg	1	12/04/07	12/12/07 NS	SW846 6010B ³	SW846 3050B ⁵
Arsenic	0.22 U	1.1	0.22	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Barium	47.2	22	0.067	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Beryllium	0.064 B	0.56	0.022	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Cadmium	0.11 U	0.56	0.11	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Calcium	19100	560	1.9	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Chromium	1.7	1.1	0.078	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Cobalt	0.73 B	5.6	0.20	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Copper	2.1 B	2.8	0.14	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Iron	2700	11	2.5	mg/kg	1	12/14/07	12/14/07 NS	SW846 6010B ⁴	SW846 3050B ⁷
Lead	1.9	1.1	0.44	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Magnesium	1400	560	1.3	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Manganese	54.3	1.7	0.078	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Mercury	0.011 B	0.018	0.00072	mg/kg	1	12/12/07	12/12/07 NS	SW846 7471A ²	SW846 7471A ⁶
Nickel	1.5 B	4.4	0.14	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Potassium	920	560	35	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Selenium	0.27 U	1.1	0.27	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Silver	0.089 U	1.1	0.089	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Sodium	236 B	560	30	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Thallium	0.56 U	2.2	0.56	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Vanadium	2.9 B	5.6	0.13	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵
Zinc	10.3	2.2	0.44	mg/kg	1	12/04/07	12/10/07 NS	SW846 6010B ¹	SW846 3050B ⁵

- (1) Instrument QC Batch: MA3267
- (2) Instrument QC Batch: MA3272
- (3) Instrument QC Batch: MA3273
- (4) Instrument QC Batch: MA3278
- (5) Prep QC Batch: MP6970
- (6) Prep QC Batch: MP7020
- (7) Prep QC Batch: MP7042

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

3.20

3

Client Sample ID:	FR-071	Date Sampled:	11/29/07
Lab Sample ID:	T19891-18	Date Received:	11/30/07
Matrix:	SO - Soil	Percent Solids:	84.2
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent ^a	1.0 U	2.0	1.0	mg/kg	1	12/18/07	AFL	SW846 3060A/7196A
Solids, Percent	84.2			%	1	12/04/07 16:35	SS	EPA 160.3 M

(a) Analysis performed at Accutest Laboratories, Orlando, FL.

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

3.21
3

Client Sample ID:	FR-072	Date Sampled:	11/29/07
Lab Sample ID:	T19891-19	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B		

Project: Falcon Refinery Superfund Site/Ingleside, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0088516.D	1	12/05/07	ZLH	n/a	n/a	VF2790
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0137	0.050	0.0028	mg/l	J
71-43-2	Benzene	0.00023 U	0.0020	0.00023	mg/l	
108-86-1	Bromobenzene	0.00073 U	0.0020	0.00073	mg/l	
74-97-5	Bromochloromethane	0.00064 U	0.0020	0.00064	mg/l	
75-27-4	Bromodichloromethane	0.00033 U	0.0020	0.00033	mg/l	
75-25-2	Bromoform	0.00065 U	0.0020	0.00065	mg/l	
71-36-3	n-Butyl Alcohol	0.0020 U	0.0020		mg/l	
104-51-8	n-Butylbenzene	0.00060 U	0.0020	0.00060	mg/l	
98-06-6	tert-Butylbenzene	0.00055 U	0.0020	0.00055	mg/l	
108-90-7	Chlorobenzene	0.00054 U	0.0020	0.00054	mg/l	
75-00-3	Chloroethane	0.00046 U	0.0020	0.00046	mg/l	
67-66-3	Chloroform	0.00066 U	0.0020	0.00066	mg/l	
95-49-8	o-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
106-43-4	p-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
75-15-0	Carbon disulfide	0.00062 U	0.0020	0.00062	mg/l	
56-23-5	Carbon tetrachloride	0.00052 U	0.0020	0.00052	mg/l	
110-82-7	Cyclohexane	0.00053 U	0.0020	0.00053	mg/l	
75-34-3	1,1-Dichloroethane	0.00052 U	0.0020	0.00052	mg/l	
75-35-4	1,1-Dichloroethylene	0.00068 U	0.0020	0.00068	mg/l	
563-58-6	1,1-Dichloropropene	0.00038 U	0.0020	0.00038	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.0015 U	0.0020	0.0015	mg/l	
106-93-4	1,2-Dibromoethane	0.00068 U	0.0020	0.00068	mg/l	
107-06-2	1,2-Dichloroethane	0.00053 U	0.0020	0.00053	mg/l	
78-87-5	1,2-Dichloropropane	0.00059 U	0.0020	0.00059	mg/l	
142-28-9	1,3-Dichloropropane	0.00061 U	0.0020	0.00061	mg/l	
123-91-1	1,4-Dioxane	0.024 U	0.050	0.024	mg/l	
594-20-7	2,2-Dichloropropane	0.00065 U	0.0020	0.00065	mg/l	
124-48-1	Dibromochloromethane	0.00068 U	0.0020	0.00068	mg/l	
75-71-8	Dichlorodifluoromethane	0.00073 U	0.0020	0.00073	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.00083 U	0.0020	0.00083	mg/l	
10061-01-5	cis-1,3-Dichloropropene	0.00059 U	0.0020	0.00059	mg/l	
156-60-5	trans-1,2-Dichloroethylene	0.00075 U	0.0020	0.00075	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.21

3

Client Sample ID:	FR-072	Date Sampled:	11/29/07	
Lab Sample ID:	T19891-19	Date Received:	11/30/07	
Matrix:	AQ - Water	Percent Solids:	n/a	
Method:	SW846 8260B			
Project:	Falcon Refinery Superfund Site/Ingleside, TX			

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.00061 U	0.0020	0.00061	mg/l	
100-41-4	Ethylbenzene	0.00048 U	0.0020	0.00048	mg/l	
60-29-7	Ethyl Ether	0.010 U	0.010		mg/l	
110-54-3	hexane	0.00061 U	0.0020	0.00061	mg/l	
591-78-6	2-Hexanone	0.0019 U	0.010	0.0019	mg/l	
87-68-3	Hexachlorobutadiene	0.0018 U	0.0020	0.0018	mg/l	
98-82-8	Isopropylbenzene	0.00046 U	0.0020	0.00046	mg/l	
99-87-6	p-Isopropyltoluene	0.00057 U	0.0020	0.00057	mg/l	
108-10-1	4-Methyl-2-pentanone	0.0073 U	0.010	0.0073	mg/l	
74-83-9	Methyl bromide	0.00047 U	0.0020	0.00047	mg/l	
74-87-3	Methyl chloride	0.00060 U	0.0020	0.00060	mg/l	
74-95-3	Methylene bromide	0.0010 U	0.0020	0.0010	mg/l	
75-09-2	Methylene chloride	0.00067 U	0.0050	0.00067	mg/l	
78-93-3	Methyl ethyl ketone	0.0030 U	0.010	0.0030	mg/l	
103-65-1	n-Propylbenzene	0.00053 U	0.0020	0.00053	mg/l	
100-42-5	Styrene	0.00050 U	0.0020	0.00050	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.00052 U	0.0020	0.00052	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00037 U	0.0020	0.00037	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.00046 U	0.0020	0.00046	mg/l	
79-00-5	1,1,2-Trichloroethane	0.00066 U	0.0020	0.00066	mg/l	
87-61-6	1,2,3-Trichlorobenzene	0.00062 U	0.0020	0.00062	mg/l	
96-18-4	1,2,3-Trichloropropane	0.00052 U	0.0020	0.00052	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.00093 U	0.0020	0.00093	mg/l	
95-63-6	1,2,4-Trimethylbenzene	0.00055 U	0.0020	0.00055	mg/l	
108-67-8	1,3,5-Trimethylbenzene	0.00047 U	0.0020	0.00047	mg/l	
127-18-4	Tetrachloroethylene	0.00074 U	0.0020	0.00074	mg/l	
108-88-3	Toluene	0.00054 U	0.0020	0.00054	mg/l	
79-01-6	Trichloroethylene	0.00063 U	0.0020	0.00063	mg/l	
75-69-4	Trichlorofluoromethane	0.00082 U	0.0020	0.00082	mg/l	
75-01-4	Vinyl chloride	0.00032 U	0.0020	0.00032	mg/l	
108-05-4	Vinyl Acetate	0.0021 U	0.010	0.0021	mg/l	
1330-20-7	Xylene (total)	0.0011 U	0.0060	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-125%
17060-07-0	1,2-Dichloroethane-D4	99%		69-128%
2037-26-5	Toluene-D8	100%		80-121%
460-00-4	4-Bromofluorobenzene	104%		69-142%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

3.21

3

Client Sample ID:	FR-072	Date Sampled:	11/29/07
Lab Sample ID:	T19891-19	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H24620.D	1	12/06/07	SC	12/05/07	OP8628	EH1384
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
108-98-5	Benzene thiol	0.010 U	0.010	0.010	mg/l	
65-85-0	Benzoic Acid	0.00058 U	0.010	0.00058	mg/l	
95-57-8	2-Chlorophenol	0.0014 U	0.0050	0.0014	mg/l	
59-50-7	4-Chloro-3-methyl phenol	0.0012 U	0.0050	0.0012	mg/l	
120-83-2	2,4-Dichlorophenol	0.0018 U	0.0050	0.0018	mg/l	
105-67-9	2,4-Dimethylphenol	0.0026 U	0.0050	0.0026	mg/l	
51-28-5	2,4-Dinitrophenol	0.0024 U	0.025	0.0024	mg/l	
534-52-1	4,6-Dinitro-o-cresol	0.0039 U	0.010	0.0039	mg/l	
95-48-7	2-Methylphenol	0.0012 U	0.0050	0.0012	mg/l	
	3&4-Methylphenol	0.0011 U	0.0050	0.0011	mg/l	
100-02-7	4-Nitrophenol	0.0017 U	0.025	0.0017	mg/l	
87-86-5	Pentachlorophenol	0.0040 U	0.025	0.0040	mg/l	
108-95-2	Phenol	0.00052 U	0.0050	0.00052	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.0018 U	0.0050	0.0018	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.0015 U	0.0050	0.0015	mg/l	
83-32-9	Acenaphthene	0.0015 U	0.0050	0.0015	mg/l	
208-96-8	Acenaphthylene	0.0016 U	0.0050	0.0016	mg/l	
120-12-7	Anthracene	0.0018 U	0.0050	0.0018	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.0025 U	0.0050	0.0025	mg/l	
101-55-3	4-Bromophenyl phenyl ether	0.0021 U	0.0050	0.0021	mg/l	
85-68-7	Butyl benzyl phthalate	0.0017 U	0.0050	0.0017	mg/l	
100-51-6	Benzyl Alcohol	0.0019 U	0.0050	0.0019	mg/l	
91-58-7	2-Chloronaphthalene	0.0012 U	0.0050	0.0012	mg/l	
106-47-8	4-Chloroaniline	0.0016 U	0.0050	0.0016	mg/l	
86-74-8	Carbazole	0.0017 U	0.0050	0.0017	mg/l	
218-01-9	Chrysene	0.0013 U	0.0050	0.0013	mg/l	
111-91-1	bis(2-Chloroethoxy)methane	0.0016 U	0.0050	0.0016	mg/l	
111-44-4	bis(2-Chloroethyl)ether	0.0012 U	0.0050	0.0012	mg/l	
7005-72-3	4-Chlorophenyl phenyl ether	0.0015 U	0.0050	0.0015	mg/l	
95-50-1	1,2-Dichlorobenzene	0.0016 U	0.0050	0.0016	mg/l	
541-73-1	1,3-Dichlorobenzene	0.0016 U	0.0050	0.0016	mg/l	
106-46-7	1,4-Dichlorobenzene	0.0015 U	0.0050	0.0015	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

3.21
3

Client Sample ID:	FR-072	Date Sampled:	11/29/07
Lab Sample ID:	T19891-19	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Compound	Result	MQL	SDL	Units	Q
121-14-2	2,4-Dinitrotoluene	0.0024 U	0.0050	0.0024	mg/l	
606-20-2	2,6-Dinitrotoluene	0.0017 U	0.0050	0.0017	mg/l	
91-94-1	3,3'-Dichlorobenzidine	0.0037 U	0.010	0.0037	mg/l	
57-97-6	7,12-Dimethylbenz(a)anthracene	0.0050 U	0.0050	0.0050	mg/l	
226-36-8	Dibenz(a,h)acridine	0.0010 U	0.0050	0.0010	mg/l	
53-70-3	Dibenzo(a, h)anthracene	0.0013 U	0.0050	0.0013	mg/l	
132-64-9	Dibenzofuran	0.0023 U	0.0050	0.0023	mg/l	
122-39-4	Diphenylamine	0.0019 U	0.0050	0.0019	mg/l	
84-74-2	Di-n-butyl phthalate	0.0016 U	0.0050	0.0016	mg/l	
117-84-0	Di-n-octyl phthalate	0.0013 U	0.0050	0.0013	mg/l	
84-66-2	Diethyl phthalate	0.0011 U	0.0050	0.0011	mg/l	
131-11-3	Dimethyl phthalate	0.0018 U	0.0050	0.0018	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0015 U	0.0050	0.0015	mg/l	
206-44-0	Fluoranthene	0.0016 U	0.0050	0.0016	mg/l	
86-73-7	Fluorene	0.0021 U	0.0050	0.0021	mg/l	
118-74-1	Hexachlorobenzene	0.0019 U	0.0050	0.0019	mg/l	
87-68-3	Hexachlorobutadiene	0.0019 U	0.0050	0.0019	mg/l	
77-47-4	Hexachlorocyclopentadiene	0.0014 U	0.0050	0.0014	mg/l	
67-72-1	Hexachloroethane	0.0017 U	0.0050	0.0017	mg/l	
95-13-6	Indene	0.014 U	0.015	0.014	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0024 U	0.0050	0.0024	mg/l	
78-59-1	Isophorone	0.0012 U	0.0050	0.0012	mg/l	
90-12-0	1-Methylnaphthalene	0.0017 U	0.0050	0.0017	mg/l	
91-57-6	2-Methylnaphthalene	0.0020 U	0.0050	0.0020	mg/l	
	6-Methyl Chrysene	0.0050 U	0.0050	0.0050	mg/l	
88-74-4	2-Nitroaniline	0.0021 U	0.0050	0.0021	mg/l	
99-09-2	3-Nitroaniline	0.0027 U	0.0050	0.0027	mg/l	
100-01-6	4-Nitroaniline	0.0050 U	0.0050	0.0050	mg/l	
91-20-3	Naphthalene	0.0015 U	0.0050	0.0015	mg/l	
98-95-3	Nitrobenzene	0.0014 U	0.0050	0.0014	mg/l	
621-64-7	N-Nitroso-di-n-propylamine	0.0017 U	0.0050	0.0017	mg/l	
86-30-6	N-Nitrosodiphenylamine	0.0019 U	0.0050	0.0019	mg/l	
85-01-8	Phenanthrene	0.0016 U	0.0050	0.0016	mg/l	
129-00-0	Pyrene	0.0011 U	0.0050	0.0011	mg/l	
91-22-5	Quinoline	0.0010 U	0.0050	0.0010	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.0010 U	0.0050	0.0010	mg/l	
98-85-1	1-Phenylethanol	0.0050 U	0.0050	0.0050	mg/l	
931-17-9	1,2-Cyclohexanediol	0.0050 U	0.0050	0.0050	mg/l	
	1,3&1,4-Cyclohexanediol	0.0050 U	0.0050	0.0050	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

3.21

3

Client Sample ID:	FR-072	Date Sampled:	11/29/07
Lab Sample ID:	T19891-19	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8270C

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		10-66%
4165-62-2	Phenol-d5	42%		10-53%
118-79-6	2,4,6-Tribromophenol	99%		32-128%
4165-60-0	Nitrobenzene-d5	92%		29-115%
321-60-8	2-Fluorobiphenyl	85%		34-113%
1718-51-0	Terphenyl-d14	115%		12-145%

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.21

3

Client Sample ID:	FR-072	Date Sampled:	11/29/07
Lab Sample ID:	T19891-19	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8270C BY SIM	SW846 3510C	
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A24711.D	1	12/07/07	SC	12/05/07	OP8629	EA1537
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	MQL	SDL	Units	Q
56-55-3	Benzo(a)anthracene	0.000055 U	0.00020	0.000055	mg/l	
50-32-8	Benzo(a)pyrene	0.000099 U	0.00020	0.000099	mg/l	
205-99-2	Benzo(b)fluoranthene	0.000056 U	0.00020	0.000056	mg/l	
207-08-9	Benzo(k)fluoranthene	0.000046 U	0.00020	0.000046	mg/l	

U = Not detected SDL - Sample Detection Limit
 MQL = Method Quantitation Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.21
3

Client Sample ID:	FR-072	Date Sampled:	11/29/07
Lab Sample ID:	T19891-19	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	86 U	200	86	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Antimony	2.7 U	5.0	2.7	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Arsenic	2.7 U	5.0	2.7	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Barium	2.4 U	200	2.4	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Beryllium	0.26 U	5.0	0.26	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Cadmium	1.8 U	4.0	1.8	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Calcium	170 U	5000	170	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Chromium	1.5 U	10	1.5	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Cobalt	9.6 U	50	9.6	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Copper	5.9 U	25	5.9	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Iron	24 U	100	24	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Lead	9.6	3.0	2.8	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Magnesium	13 U	5000	13	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Manganese	5.0 B	15	4.1	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Mercury	0.094 U	0.20	0.094	ug/l	1	12/10/07	12/10/07 NS	SW846 7470A ²	SW846 7470A ⁴
Nickel	2.6 U	40	2.6	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Potassium	160 U	5000	160	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Selenium	2.3 U	5.0	2.3	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Silver	1.1 U	10	1.1	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Sodium	330 U	5000	330	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Thallium	3.4 B	10	2.7	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Vanadium	0.94 U	50	0.94	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³
Zinc	17.4 B	20	7.5	ug/l	1	12/04/07	12/07/07 NS	SW846 6010B ¹	SW846 3010A ³

(1) Instrument QC Batch: MA3264

(2) Instrument QC Batch: MA3266

(3) Prep QC Batch: MP6972

(4) Prep QC Batch: MP6999

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 1

3.21

3

Client Sample ID:	FR-072	Date Sampled:	11/29/07
Lab Sample ID:	T19891-19	Date Received:	11/30/07
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.0040 U	0.010	0.0040	mg/l	1	11/30/07 10:05	SS	SW846 7196A

MQL = Method Quantitation Limit
 SDL = Sample Detection Limit

U = Indicates a result < SDL
 B = Indicates a result > = SDL but < MQL

Report of Analysis

Page 1 of 2

3.22
3

Client Sample ID:	TRIP BLANK	Date Sampled:	11/29/07	
Lab Sample ID:	T19891-20	Date Received:	11/30/07	
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a	
Method:	SW846 8260B	Project: Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0088514.D	1	12/04/07	ZLH	n/a	n/a	VF2790
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0028 U	0.050	0.0028	mg/l	
71-43-2	Benzene	0.00023 U	0.0020	0.00023	mg/l	
108-86-1	Bromobenzene	0.00073 U	0.0020	0.00073	mg/l	
74-97-5	Bromochloromethane	0.00064 U	0.0020	0.00064	mg/l	
75-27-4	Bromodichloromethane	0.00033 U	0.0020	0.00033	mg/l	
75-25-2	Bromoform	0.00065 U	0.0020	0.00065	mg/l	
71-36-3	n-Butyl Alcohol	0.0020 U	0.0020		mg/l	
104-51-8	n-Butylbenzene	0.00060 U	0.0020	0.00060	mg/l	
98-06-6	tert-Butylbenzene	0.00055 U	0.0020	0.00055	mg/l	
108-90-7	Chlorobenzene	0.00054 U	0.0020	0.00054	mg/l	
75-00-3	Chloroethane	0.00046 U	0.0020	0.00046	mg/l	
67-66-3	Chloroform	0.00066 U	0.0020	0.00066	mg/l	
95-49-8	o-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
106-43-4	p-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
75-15-0	Carbon disulfide	0.00062 U	0.0020	0.00062	mg/l	
56-23-5	Carbon tetrachloride	0.00052 U	0.0020	0.00052	mg/l	
110-82-7	Cyclohexane	0.00053 U	0.0020	0.00053	mg/l	
75-34-3	1,1-Dichloroethane	0.00052 U	0.0020	0.00052	mg/l	
75-35-4	1,1-Dichloroethylene	0.00068 U	0.0020	0.00068	mg/l	
563-58-6	1,1-Dichloropropene	0.00038 U	0.0020	0.00038	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.0015 U	0.0020	0.0015	mg/l	
106-93-4	1,2-Dibromoethane	0.00068 U	0.0020	0.00068	mg/l	
107-06-2	1,2-Dichloroethane	0.00053 U	0.0020	0.00053	mg/l	
78-87-5	1,2-Dichloropropane	0.00059 U	0.0020	0.00059	mg/l	
142-28-9	1,3-Dichloropropane	0.00061 U	0.0020	0.00061	mg/l	
123-91-1	1,4-Dioxane	0.024 U	0.050	0.024	mg/l	
594-20-7	2,2-Dichloropropane	0.00065 U	0.0020	0.00065	mg/l	
124-48-1	Dibromochloromethane	0.00068 U	0.0020	0.00068	mg/l	
75-71-8	Dichlorodifluoromethane	0.00073 U	0.0020	0.00073	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.00083 U	0.0020	0.00083	mg/l	
10061-01-5	cis-1,3-Dichloropropene	0.00059 U	0.0020	0.00059	mg/l	
156-60-5	trans-1,2-Dichloroethylene	0.00075 U	0.0020	0.00075	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.22

3

Client Sample ID:	TRIP BLANK	Date Sampled:	11/29/07
Lab Sample ID:	T19891-20	Date Received:	11/30/07
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.00061 U	0.0020	0.00061	mg/l	
100-41-4	Ethylbenzene	0.00048 U	0.0020	0.00048	mg/l	
60-29-7	Ethyl Ether	0.010 U	0.010		mg/l	
110-54-3	hexane	0.00061 U	0.0020	0.00061	mg/l	
591-78-6	2-Hexanone	0.0019 U	0.010	0.0019	mg/l	
87-68-3	Hexachlorobutadiene	0.0018 U	0.0020	0.0018	mg/l	
98-82-8	Isopropylbenzene	0.00046 U	0.0020	0.00046	mg/l	
99-87-6	p-Isopropyltoluene	0.00057 U	0.0020	0.00057	mg/l	
108-10-1	4-Methyl-2-pentanone	0.0073 U	0.010	0.0073	mg/l	
74-83-9	Methyl bromide	0.00047 U	0.0020	0.00047	mg/l	
74-87-3	Methyl chloride	0.00060 U	0.0020	0.00060	mg/l	
74-95-3	Methylene bromide	0.0010 U	0.0020	0.0010	mg/l	
75-09-2	Methylene chloride	0.00067 U	0.0050	0.00067	mg/l	
78-93-3	Methyl ethyl ketone	0.0030 U	0.010	0.0030	mg/l	
103-65-1	n-Propylbenzene	0.00053 U	0.0020	0.00053	mg/l	
100-42-5	Styrene	0.00050 U	0.0020	0.00050	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.00052 U	0.0020	0.00052	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00037 U	0.0020	0.00037	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.00046 U	0.0020	0.00046	mg/l	
79-00-5	1,1,2-Trichloroethane	0.00066 U	0.0020	0.00066	mg/l	
87-61-6	1,2,3-Trichlorobenzene	0.00062 U	0.0020	0.00062	mg/l	
96-18-4	1,2,3-Trichloropropane	0.00052 U	0.0020	0.00052	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.00093 U	0.0020	0.00093	mg/l	
95-63-6	1,2,4-Trimethylbenzene	0.00055 U	0.0020	0.00055	mg/l	
108-67-8	1,3,5-Trimethylbenzene	0.00047 U	0.0020	0.00047	mg/l	
127-18-4	Tetrachloroethylene	0.00074 U	0.0020	0.00074	mg/l	
108-88-3	Toluene	0.00054 U	0.0020	0.00054	mg/l	
79-01-6	Trichloroethylene	0.00063 U	0.0020	0.00063	mg/l	
75-69-4	Trichlorofluoromethane	0.00082 U	0.0020	0.00082	mg/l	
75-01-4	Vinyl chloride	0.00032 U	0.0020	0.00032	mg/l	
108-05-4	Vinyl Acetate	0.0021 U	0.010	0.0021	mg/l	
1330-20-7	Xylene (total)	0.0011 U	0.0060	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-125%
17060-07-0	1,2-Dichloroethane-D4	99%		69-128%
2037-26-5	Toluene-D8	100%		80-121%
460-00-4	4-Bromofluorobenzene	103%		69-142%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

3.23
3

Client Sample ID:	TRIP BLANK	Date Sampled:	11/29/07	
Lab Sample ID:	T19891-21	Date Received:	11/30/07	
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a	
Method:	SW846 8260B	Project: Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0088513.D	1	12/04/07	ZLH	n/a	n/a	VF2790
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0039	0.050	0.0028	mg/l	J
71-43-2	Benzene	0.00023 U	0.0020	0.00023	mg/l	
108-86-1	Bromobenzene	0.00073 U	0.0020	0.00073	mg/l	
74-97-5	Bromochloromethane	0.00064 U	0.0020	0.00064	mg/l	
75-27-4	Bromodichloromethane	0.00033 U	0.0020	0.00033	mg/l	
75-25-2	Bromoform	0.00065 U	0.0020	0.00065	mg/l	
71-36-3	n-Butyl Alcohol	0.0039	0.0020		mg/l	
104-51-8	n-Butylbenzene	0.00060 U	0.0020	0.00060	mg/l	
98-06-6	tert-Butylbenzene	0.00055 U	0.0020	0.00055	mg/l	
108-90-7	Chlorobenzene	0.00054 U	0.0020	0.00054	mg/l	
75-00-3	Chloroethane	0.00046 U	0.0020	0.00046	mg/l	
67-66-3	Chloroform	0.00066 U	0.0020	0.00066	mg/l	
95-49-8	o-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
106-43-4	p-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
75-15-0	Carbon disulfide	0.00062 U	0.0020	0.00062	mg/l	
56-23-5	Carbon tetrachloride	0.00052 U	0.0020	0.00052	mg/l	
110-82-7	Cyclohexane	0.00053 U	0.0020	0.00053	mg/l	
75-34-3	1,1-Dichloroethane	0.00052 U	0.0020	0.00052	mg/l	
75-35-4	1,1-Dichloroethylene	0.00068 U	0.0020	0.00068	mg/l	
563-58-6	1,1-Dichloropropene	0.00038 U	0.0020	0.00038	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.0015 U	0.0020	0.0015	mg/l	
106-93-4	1,2-Dibromoethane	0.00068 U	0.0020	0.00068	mg/l	
107-06-2	1,2-Dichloroethane	0.00053 U	0.0020	0.00053	mg/l	
78-87-5	1,2-Dichloropropane	0.00059 U	0.0020	0.00059	mg/l	
142-28-9	1,3-Dichloropropane	0.00061 U	0.0020	0.00061	mg/l	
123-91-1	1,4-Dioxane	0.024 U	0.050	0.024	mg/l	
594-20-7	2,2-Dichloropropane	0.00065 U	0.0020	0.00065	mg/l	
124-48-1	Dibromochloromethane	0.00068 U	0.0020	0.00068	mg/l	
75-71-8	Dichlorodifluoromethane	0.00073 U	0.0020	0.00073	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.00083 U	0.0020	0.00083	mg/l	
10061-01-5	cis-1,3-Dichloropropene	0.00059 U	0.0020	0.00059	mg/l	
156-60-5	trans-1,2-Dichloroethylene	0.00075 U	0.0020	0.00075	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.23
3

Client Sample ID:	TRIP BLANK	Date Sampled:	11/29/07
Lab Sample ID:	T19891-21	Date Received:	11/30/07
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
---------	----------	--------	-----	-----	-------	---

10061-02-6	trans-1,3-Dichloropropene	0.00061 U	0.0020	0.00061	mg/l	
100-41-4	Ethylbenzene	0.00048 U	0.0020	0.00048	mg/l	
60-29-7	Ethyl Ether	0.010 U	0.010		mg/l	
110-54-3	hexane	0.00061 U	0.0020	0.00061	mg/l	
591-78-6	2-Hexanone	0.0019 U	0.010	0.0019	mg/l	
87-68-3	Hexachlorobutadiene	0.0018 U	0.0020	0.0018	mg/l	
98-82-8	Isopropylbenzene	0.00046 U	0.0020	0.00046	mg/l	
99-87-6	p-Isopropyltoluene	0.00057 U	0.0020	0.00057	mg/l	
108-10-1	4-Methyl-2-pentanone	0.0073 U	0.010	0.0073	mg/l	
74-83-9	Methyl bromide	0.00047 U	0.0020	0.00047	mg/l	
74-87-3	Methyl chloride	0.00060 U	0.0020	0.00060	mg/l	
74-95-3	Methylene bromide	0.0010 U	0.0020	0.0010	mg/l	
75-09-2	Methylene chloride	0.00067 U	0.0050	0.00067	mg/l	
78-93-3	Methyl ethyl ketone	0.0030 U	0.010	0.0030	mg/l	
103-65-1	n-Propylbenzene	0.00053 U	0.0020	0.00053	mg/l	
100-42-5	Styrene	0.00050 U	0.0020	0.00050	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.00052 U	0.0020	0.00052	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00037 U	0.0020	0.00037	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.00046 U	0.0020	0.00046	mg/l	
79-00-5	1,1,2-Trichloroethane	0.00066 U	0.0020	0.00066	mg/l	
87-61-6	1,2,3-Trichlorobenzene	0.00062 U	0.0020	0.00062	mg/l	
96-18-4	1,2,3-Trichloropropane	0.00052 U	0.0020	0.00052	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.00093 U	0.0020	0.00093	mg/l	
95-63-6	1,2,4-Trimethylbenzene	0.00055 U	0.0020	0.00055	mg/l	
108-67-8	1,3,5-Trimethylbenzene	0.00047 U	0.0020	0.00047	mg/l	
127-18-4	Tetrachloroethylene	0.00074 U	0.0020	0.00074	mg/l	
108-88-3	Toluene	0.00054 U	0.0020	0.00054	mg/l	
79-01-6	Trichloroethylene	0.00063 U	0.0020	0.00063	mg/l	
75-69-4	Trichlorofluoromethane	0.00082 U	0.0020	0.00082	mg/l	
75-01-4	Vinyl chloride	0.00032 U	0.0020	0.00032	mg/l	
108-05-4	Vinyl Acetate	0.0021 U	0.010	0.0021	mg/l	
1330-20-7	Xylene (total)	0.0011 U	0.0060	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-125%
17060-07-0	1,2-Dichloroethane-D4	99%		69-128%
2037-26-5	Toluene-D8	100%		80-121%
460-00-4	4-Bromofluorobenzene	104%		69-142%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

3.24
3

Client Sample ID:	TRIP BLANK	Date Sampled:	11/29/07	
Lab Sample ID:	T19891-22	Date Received:	11/30/07	
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a	
Method:	SW846 8260B	Project: Falcon Refinery Superfund Site/Ingleside, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F0088512.D	1	12/04/07	ZLH	n/a	n/a	VF2790
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	0.0033	0.050	0.0028	mg/l	J
71-43-2	Benzene	0.00023 U	0.0020	0.00023	mg/l	
108-86-1	Bromobenzene	0.00073 U	0.0020	0.00073	mg/l	
74-97-5	Bromochloromethane	0.00064 U	0.0020	0.00064	mg/l	
75-27-4	Bromodichloromethane	0.00033 U	0.0020	0.00033	mg/l	
75-25-2	Bromoform	0.00065 U	0.0020	0.00065	mg/l	
71-36-3	n-Butyl Alcohol	0.0576	0.0020		mg/l	
104-51-8	n-Butylbenzene	0.00060 U	0.0020	0.00060	mg/l	
98-06-6	tert-Butylbenzene	0.00055 U	0.0020	0.00055	mg/l	
108-90-7	Chlorobenzene	0.00054 U	0.0020	0.00054	mg/l	
75-00-3	Chloroethane	0.00046 U	0.0020	0.00046	mg/l	
67-66-3	Chloroform	0.00066 U	0.0020	0.00066	mg/l	
95-49-8	o-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
106-43-4	p-Chlorotoluene	0.00050 U	0.0020	0.00050	mg/l	
75-15-0	Carbon disulfide	0.00062 U	0.0020	0.00062	mg/l	
56-23-5	Carbon tetrachloride	0.00052 U	0.0020	0.00052	mg/l	
110-82-7	Cyclohexane	0.00053 U	0.0020	0.00053	mg/l	
75-34-3	1,1-Dichloroethane	0.00052 U	0.0020	0.00052	mg/l	
75-35-4	1,1-Dichloroethylene	0.00068 U	0.0020	0.00068	mg/l	
563-58-6	1,1-Dichloropropene	0.00038 U	0.0020	0.00038	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.0015 U	0.0020	0.0015	mg/l	
106-93-4	1,2-Dibromoethane	0.00068 U	0.0020	0.00068	mg/l	
107-06-2	1,2-Dichloroethane	0.00053 U	0.0020	0.00053	mg/l	
78-87-5	1,2-Dichloropropane	0.00059 U	0.0020	0.00059	mg/l	
142-28-9	1,3-Dichloropropane	0.00061 U	0.0020	0.00061	mg/l	
123-91-1	1,4-Dioxane	0.024 U	0.050	0.024	mg/l	
594-20-7	2,2-Dichloropropane	0.00065 U	0.0020	0.00065	mg/l	
124-48-1	Dibromochloromethane	0.00068 U	0.0020	0.00068	mg/l	
75-71-8	Dichlorodifluoromethane	0.00073 U	0.0020	0.00073	mg/l	
156-59-2	cis-1,2-Dichloroethylene	0.00083 U	0.0020	0.00083	mg/l	
10061-01-5	cis-1,3-Dichloropropene	0.00059 U	0.0020	0.00059	mg/l	
156-60-5	trans-1,2-Dichloroethylene	0.00075 U	0.0020	0.00075	mg/l	

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.24

3

Client Sample ID:	TRIP BLANK	Date Sampled:	11/29/07
Lab Sample ID:	T19891-22	Date Received:	11/30/07
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Falcon Refinery Superfund Site/Ingleside, TX		

SW-846 8260B

CAS No.	Compound	Result	MQL	SDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	0.00061 U	0.0020	0.00061	mg/l	
100-41-4	Ethylbenzene	0.00048 U	0.0020	0.00048	mg/l	
60-29-7	Ethyl Ether	0.010 U	0.010		mg/l	
110-54-3	hexane	0.00061 U	0.0020	0.00061	mg/l	
591-78-6	2-Hexanone	0.0019 U	0.010	0.0019	mg/l	
87-68-3	Hexachlorobutadiene	0.0018 U	0.0020	0.0018	mg/l	
98-82-8	Isopropylbenzene	0.00046 U	0.0020	0.00046	mg/l	
99-87-6	p-Isopropyltoluene	0.00057 U	0.0020	0.00057	mg/l	
108-10-1	4-Methyl-2-pentanone	0.0073 U	0.010	0.0073	mg/l	
74-83-9	Methyl bromide	0.00047 U	0.0020	0.00047	mg/l	
74-87-3	Methyl chloride	0.00060 U	0.0020	0.00060	mg/l	
74-95-3	Methylene bromide	0.0010 U	0.0020	0.0010	mg/l	
75-09-2	Methylene chloride	0.00067 U	0.0050	0.00067	mg/l	
78-93-3	Methyl ethyl ketone	0.0030 U	0.010	0.0030	mg/l	
103-65-1	n-Propylbenzene	0.00053 U	0.0020	0.00053	mg/l	
100-42-5	Styrene	0.00050 U	0.0020	0.00050	mg/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.00052 U	0.0020	0.00052	mg/l	
71-55-6	1,1,1-Trichloroethane	0.00037 U	0.0020	0.00037	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.00046 U	0.0020	0.00046	mg/l	
79-00-5	1,1,2-Trichloroethane	0.00066 U	0.0020	0.00066	mg/l	
87-61-6	1,2,3-Trichlorobenzene	0.00062 U	0.0020	0.00062	mg/l	
96-18-4	1,2,3-Trichloropropane	0.00052 U	0.0020	0.00052	mg/l	
120-82-1	1,2,4-Trichlorobenzene	0.00093 U	0.0020	0.00093	mg/l	
95-63-6	1,2,4-Trimethylbenzene	0.00055 U	0.0020	0.00055	mg/l	
108-67-8	1,3,5-Trimethylbenzene	0.00047 U	0.0020	0.00047	mg/l	
127-18-4	Tetrachloroethylene	0.00074 U	0.0020	0.00074	mg/l	
108-88-3	Toluene	0.00054 U	0.0020	0.00054	mg/l	
79-01-6	Trichloroethylene	0.00063 U	0.0020	0.00063	mg/l	
75-69-4	Trichlorofluoromethane	0.00082 U	0.0020	0.00082	mg/l	
75-01-4	Vinyl chloride	0.00032 U	0.0020	0.00032	mg/l	
108-05-4	Vinyl Acetate	0.0021 U	0.010	0.0021	mg/l	
1330-20-7	Xylene (total)	0.0011 U	0.0060	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		76-125%
17060-07-0	1,2-Dichloroethane-D4	100%		69-128%
2037-26-5	Toluene-D8	99%		80-121%
460-00-4	4-Bromofluorobenzene	102%		69-142%

U = Not detected SDL - Sample Detection Limit

J = Indicates an estimated value

MQL = Method Quantitation Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



IT'S ALL IN THE CHEMISTRY



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- LRC Form

CHAIN OF CUSTODY

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

Page 1 of 3 TW

Client / Reporting Information			Project Information			Requested Analyses			Matrix Codes			
Company Name KLEINFELDER Project Contact Stephen Halasz Address 3601 Manor Road City State Zip Austin, TX 78723 Phone No. 512-926-6650			Project Name / No. Falcon Refinery Superfund Site/Ingleseide, Texas Bill to Invoice Attn. Address									
Samplers Name <i>Jerry Welt, Jose Gallegos, Paul Spath</i>						Client Purchase Order # T19891						
Accutest Sample #	Field ID / Point of Collection	Collection Date Time		Matrix # of bottles	Number of preserved bottles							
		VOA (5260TC-L)	SVOA (5270TC-L)			TOTAL METALS (60107471)	PCB (60182)	Herbicides (8151)	Pesticides (8081)	Hex-Chromium		
1	FR-054	11/29/07	8:30	S	2	2	X	X	X	X	X	
2	FR-055	11/29/07	8:36	S	2	2	X	X	X	X	X	
3	FR-056	11/29/07	9:28	S	2	2	X	X	X	X	X	
4	FR-057	11/29/07	9:30	S	2	2	X	X	X	X	X	
5	FR-058	11/29/07	9:34	S	2	2	X	X	X	X	X	
5	FR-058 MS/MSD	11/29/07	9:38	S	2	2	X	X	X	X	X	
4	FR-059	11/29/07	10:20	S	2	2	X	X	X	X	X	
7	FR-060	11/29/07	10:26	S	2	2	X	X	X	X	X	
8	FR-061	11/29/07	11:06	S	2	2	X	X	X	X	X	
9	FR-062	11/29/07	11:12	S	2	2	X	X	X	X	X	
Turnaround Time (CAL days)		Data Deliverable Information			Comments / Remarks							
<input checked="" type="checkbox"/> 12 Day STANDARD <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> Other		Approved By / Date: _____			<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> Reduced Tier 1 <input type="checkbox"/> Full Data Package						<input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input checked="" type="checkbox"/> TRRP Commercial "A" = Results Only Commercial "B" = Results & Standard QC	
											TRRP REPORTING	
Real time analytical data available via Lablink		SAMPLE CUSTODY MUST BE DOCUMENTED BEFORE EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY										
Relinquished by Sampler: 1 <i>Jerry Welt</i> Relinquished By: Date Time: 11/29/07		Received By: <i>Jerry Welt</i>		Relinquished By: 2		Received By: <i>Rodney</i>		Date Time: 2		Received By: <i>Rodney</i>		
Relinquished by Sampler: 3 <i>R. Bon</i> Relinquished By: Date Time: 11/29/07		Received By: <i>R. Bon</i>		Relinquished By: 4		Received By: <i>Rodney</i>		Date Time: 4		Received By: <i>Rodney</i>		
						Custody Seal # <i>5</i>		Preserved where applicable <input type="checkbox"/>		On Ice <input type="checkbox"/> Cooler Temp. <input type="checkbox"/>		

T19891: Chain of Custody

Page 1 of 5

CHAIN OF CUSTODY

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

Page 2 of 3 TW

T19891

Client / Reporting Information			Project Information			FED-EX Tracking #			Bottle Order Control #								
Company Name KLEINFELDER			Project Name / No. Falcon Refinery Superfund Site/Ingleside, Texas			Accutest Quote #			Accutest Job #								
Project Contact Stephen Halasz E-Mail: halasz@kleinfelder.com			Bill to Invoice Attn.														
Address 3601 Manor Road Austin, TX 78723			Address														
City State Zip Austin, TX 78723			City State Zip														
Phone No. 512-926-6650			Fax No.			Phone No.			Fax No.								
Sampler's Name <i>RTT Webb, Isaac Gallegos, Paul Supak</i>			Client Purchase Order #														
Accutest Sample #	Field ID / Point of Collection	Collection		# of bottles	Number of preserved bottles	VOA (8260TCL)			SVOA (8270TCL)			Requested Analyses			Matrix Codes		
		Date	Time			HCl	NaOH	HgCO ₃	HgSO ₄	ENOCRES	NaHSO ₄	MgCl ₂	NONE	Pb/C (8002)	Herbicides (8151)	Pesticides (8081)	Hex-Chromium
0	FR - 063	11/29/07	11:20	W	73	1					X	X	X	X	X	GW - Ground Water	
11	FR - 064	11/29/07	2:05	S	2						2	X	X	X	X	WW - Wastewater	
12	FR - 065	11/29/07	2:09	S	2						2	X	X	X	X	SO - Soil	
13	FR - 066	11/29/07	2:35	W	73	1					2	X	X	X	X	SL - Sludge	
14	FR - 067	11/29/07	3:39	S	2						3	X	X	X	X	Oil - Oil	
15	FR - 068	11/29/07	3:39	S	2						2	X	X	X	X	LIO - Other Liquid	
16	FR - 069	11/29/07	4:14	S	2						2	X	X	X	X	SOL - Other Solid	
17	FR - 070	11/29/07	4:17	S	2						2	X	X	X	X		
18	FR - 071	11/29/07	4:20	S	2						2	X	X	X	X		
19	FR - 072	11/29/07	4:46	W	73	1					3	X	X	X	X		
Turnaround Time (CAL days)			Data Deliverable Information									Comments / Remarks					
<input checked="" type="checkbox"/> 12 Day STANDARD <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> Other			Approved By: _____ Date: _____			<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> Reduced Tier 1 <input type="checkbox"/> Full Data Package			<input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input checked="" type="checkbox"/> TRRP			TRRP REPORTING					
Real time analytical data available via Lablink																	
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																	
Relinquished by Sampler:		Date Time: 11/29/07	Reported By: <i>Jeanne Bonn</i>	Relinquished By: 1	Date Time:	Received By:	Relinquished By: 2	Date Time:	Received By:								
1 <i>Terry Wolf</i>																	
Relinquished by:		Date Time:	Received By:	Relinquished By: 3	Date Time:	Received By:	Relinquished By: 4	Date Time:	Received By:								
3 <i>Jeanne Bonn</i>																	
Relinquished by:		Date Time: 11/30/07	Received By: <i>Rodney</i>	Custody Seal #	Preserved where applicable			On Ice	Cooler Temp.								
5 <i>Rodney</i>																	

T19891: Chain of Custody

Page 2 of 5

CHAIN OF CUSTODY

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

Page 3 of 3 TW

Client / Reporting Information			Project Information			FED-EX Tracking #		Bottle Order Control #			
Company Name KLEINFELDER			Project Name / No. Falcon Refinery Superfund Site/Ingleside, Texas			Accutest Quote #		Accutest Job # <u>T19891</u>			
Project Contact Stephen Halasz E-Mail <u>halasz@kleinfelder.com</u>			Bill to Invoice Attn:								
Address 3601 Manor Road City Austin, TX Zip 78723			Address								
Phone No. 512-926-6650			Phone No.			Fax No.					
Sampler's Name <u>Kathy Wulf, Jose Gallegos, Paul Syrek</u>											
Client Purchase Order #											
Accutest Sample #	Field ID / Point of Collection		Collection		# of bottles	Number of preserved bottles				Matrix Codes	
	Date	Time	Matrx	HCl		NaOH	HgCl ₂	HSO ₄ ⁻	ENOPH		NaSCN
20	Trip Blank		W	2	X						X
21	Trip Blank		W	2	X						X
22	Trip Blank		W	2	X						X
										LAB USE ONLY	
Turnaround Time (CAL days)		Data Deliverable Information								Comments / Remarks	
<input checked="" type="checkbox"/> 12 Day STANDARD <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> Other		Approved By/ Date: _____ <input type="checkbox"/> Commercial "A" <input type="checkbox"/> State Forms <input type="checkbox"/> Commercial "B" <input type="checkbox"/> EDD Format _____ <input type="checkbox"/> Reduced Tier I <input checked="" type="checkbox"/> TRRP <input type="checkbox"/> Full Data Package								TRRP REPORTING	
Real time analytical data available via Lablink											
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY											
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:						
1 <u>Terry Wulf</u>	11/29/07 12:00	<u>John Bawden</u>	2		2						
Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:						
3			3		4						
Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice	Cooler Temp.					
5 <u>John Bawden</u>	11/29/07 0838	<u>John Bawden</u>	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

4.1

4

T19891: Chain of Custody

Page 3 of 5



**VARIANCE MEMO
SAMPLE LOG-IN**

SAMPLE(S) # 13-FR-JUL DATE 11/30/01
 PROJECT Falcon Refinery LAB NO. T19891
 FILED BY AP

VARIANCE - Check applicable items(s):

- Insufficient sample sent for proper analysis; received approx. _____
- Sample bottle received broken and/or cap not intact.
- Samples received without paperwork; paperwork received without samples.
- Samples received without proper refrigeration, when it has been deemed necessary. Temperature at receipt: _____
- Illegible sample number or label missing from bottle.
- Numbers on sample not the same as numbers on paper work.
- Incomplete instructions received with sample(s) ie, no request for analysis, no chain of custody, incomplete billing instructions, no due date, etc. Temperature at receipt: _____
- Samples received in improper container or lacking proper preservation.
- Physical characteristics different than those on sampling sheets;
- Describe: _____
- Rush samples on hold because of incomplete paperwork.
- Other (specify) Lab rec'd. Only One Number for SVOA instead of 2.

CORRECTIVE ACTION TAKEN

- | | | | |
|---|---------------------------------|---|--|
| <u>Maple Hollow</u> | Person Contacted | <input type="checkbox"/> By phone. | <input type="checkbox"/> Samples processed for information only and noted on report. |
| <input type="checkbox"/> Client informed verbally. | | <input type="checkbox"/> Samples processed with higher detection limits accepted. | <input type="checkbox"/> Samples rejected. |
| <u>Gyral</u> | Client informed by memo/letter. | | |
| <input type="checkbox"/> Samples processed as is. | | | |
| <input type="checkbox"/> Samples preserved by lab. | | | |
| <input type="checkbox"/> Client will resample and resubmit. | | | |
- Notes: _____

ROUTING

TITLE	DATE	INITIALS	CORRECTED?
Sample Manager:			
Login:			
Project Manager:	<u>11-30-01</u>	<u>QO</u>	
Comments:			

Form: SVOB9



ACCUTES

SAMPLE RECEIPT LOG

719891
IDB #:

JOB #: 11/8/11 DATE/TIME RECEIVED: 11/8/11 INITIALS: AK
CLIENT: Kleinfielder

INITIAL

DATE/TIME RECEIVED: 1/30/91 8:38

Condition/Variance (Circle "Y" for yes and "N" for no or NA. If "N" is circled, see variance for explanation):

1. N Sample received in undamaged condition.
3. N Sample received with proper pH.
5. N Sample volume sufficient for analysis.
7. N Chain of Custody matches sample IDs and analysis on containers.

2. N Samples received within temp. range.

4. N Sample received in proper container.

6. N Sample received with chain of custody.

LOCATION: WI: Walk-in VR: Volatile Refrigerant
PRESERVATIVES: 1: None 2: HCl 3: HNO₃ 4: H₂SO₄ 5: NaOH
SUB: Subcontractor **EFI:** Encore Freezer
Comments: 6: Other

pH of waters checked excluding volatiles

Delivery Method: Courier

COOLER TEMP: 1.8 COOLER TEMP: 1.8
COOLER TEMP: 2.4 COOLER TEMP: 2.4

Form: SMD12, Rev.07/28/06, QAO

 169 of 275
ACCUTEST
T19891 Laboratories

Appendix A Laboratory Data Package Cover Page

4.2

4

This data package consists of:

- This signature page, the laboratory review checklist, and the following reportable data:
 - R1 Field chain-of-custody documentation;
 - R2 Sample identification cross-reference;
 - R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.
- The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: [] This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Ron Martino



Lab Director

12/21/2007

Name (Printed)

Signature

Official Title (printed)

Date

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: Accutest Laboratories Gulf Coast		LRC Date: 12/21/2007				
Project Name: Falcon Refinery Superfund Site		Laboratory Job Number: T19891				
Reviewer Name: Ron Martino		Prep Batch Number(s):				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴
R1	OI	Chain-of-custody (C-O-C)				
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X			
		Were all departures from standard conditions described in an exception report?	X			
R2	OI	Sample and quality control (QC) identification				
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X			
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X			
R3	OI	Test reports				
		Were all samples prepared and analyzed within holding times?	X			
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X			
		Were calculations checked by a peer or supervisor?	X			
		Were all analyte identifications checked by a peer or supervisor?	X			
		Were sample quantitation limits reported for all analytes not detected?	X			
		Were all results for soil and sediment samples reported on a dry weight basis?	X			
		Were % moisture (or solids) reported for all soil and sediment samples?	X			
		If required for the project, TICs reported?				X
R4	O	Surrogate recovery data				
		Were surrogates added prior to extraction?	X			
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X		1
R5	OI	Test reports/summary forms for blank samples				
		Were appropriate type(s) of blanks analyzed?	X			
		Were blanks analyzed at the appropriate frequency?	X			
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X			
		Were blank concentrations < MQL?	X			
R6	OI	Laboratory control samples (LCS):				
		Were all COCs included in the LCS?	X			
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X			
		Were LCSs analyzed at the required frequency?	X			
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X		1
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X			
		Was the LCSD RPD within QC limits?				X
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data				
		Were the project/method specified analytes included in the MS and MSD?	X			
		Were MS/MSD analyzed at the appropriate frequency?	X			
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X		1
		Were MS/MSD RPDs within laboratory QC limits?	X			1
R8	OI	Analytical duplicate data				
		Were appropriate analytical duplicates analyzed for each matrix?	X			
		Were analytical duplicates analyzed at the appropriate frequency?	X			
		Were RPDs or relative standard deviations within the laboratory QC limits?		X		1
R9	OI	Method quantitation limits (MQLs):				
		Are the MQLs for each method analyte included in the laboratory data package?	X			
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X			
		Are unadjusted MQLs included in the laboratory data package?	X			
R10	OI	Other problems/anomalies				
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X			
		Were all necessary corrective actions performed for the reported data?	X			
		Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X			

2. = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

3. NA = Not applicable;

4. NR = Not reviewed;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: Accutest Laboratories Gulf Coast	LRC Date: 12/21/2007						
Project Name: Falcon Refinery Superfund Site	Laboratory Job Number: T19891						
Reviewer Name: Ron Martino	Prep Batch Number(s):						
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (CCV and CCV) and continuing calibration					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?	X				
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?	X				
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				1
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S16	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
 3 NA = Not applicable.
 4 NR = Not Reviewed.
 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports

Laboratory Name: Accutest Laboratories Gulf Coast	LRC Date: 12/21/2007
Project Name: Falcon Refinery Superfund Site	Laboratory Job Number: T19891
Reviewer Name: Ron Martino	Prep Batch Number(s):
ER # ⁴	DESCRIPTION
1	All anomalies are discussed in the case narrative.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)



IT'S ALL IN THE CHEMISTRY

GC/MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 2

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2790-MB	F0088504.D	1	12/04/07	ZLH	n/a	n/a	VF2790

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-10, T19891-13, T19891-19, T19891-20, T19891-21, T19891-22

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	2.8	ug/l	
71-43-2	Benzene	ND	2.0	0.23	ug/l	
108-86-1	Bromobenzene	ND	2.0	0.73	ug/l	
74-97-5	Bromochloromethane	ND	2.0	0.64	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.33	ug/l	
75-25-2	Bromoform	ND	2.0	0.65	ug/l	
71-36-3	n-Butyl Alcohol	ND	2.0		ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.60	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.54	ug/l	
75-00-3	Chloroethane	ND	2.0	0.46	ug/l	
67-66-3	Chloroform	ND	2.0	0.66	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.50	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.62	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	0.52	ug/l	
110-82-7	Cyclohexane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.52	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	0.68	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	0.38	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.5	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.68	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.53	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.59	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	0.61	ug/l	
123-91-1	1,4-Dioxane	ND	50	24	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	0.65	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.68	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.73	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	0.83	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.59	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.75	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.61	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.48	ug/l	
60-29-7	Ethyl Ether	ND	10		ug/l	
110-54-3	hexane	ND	2.0	0.61	ug/l	

5
5

Method Blank Summary

Page 2 of 2

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2790-MB	F0088504.D	1	12/04/07	ZLH	n/a	n/a	VF2790

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-10, T19891-13, T19891-19, T19891-20, T19891-21, T19891-22

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	1.9	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	1.8	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.46	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.57	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	7.3	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.47	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.60	ug/l	
74-95-3	Methylene bromide	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.67	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	3.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.53	ug/l	
100-42-5	Styrene	ND	2.0	0.50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	0.52	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.37	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.66	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.62	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.52	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.93	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.55	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.47	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	0.74	ug/l	
108-88-3	Toluene	ND	2.0	0.54	ug/l	
79-01-6	Trichloroethylene	ND	2.0	0.63	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.82	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.32	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.1	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	100% 76-125%
17060-07-0	1,2-Dichloroethane-D4	101% 69-128%
2037-26-5	Toluene-D8	99% 80-121%
460-00-4	4-Bromofluorobenzene	102% 69-142%

Method Blank Summary

Page 1 of 2

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM43-MB	M0001020.D 1		12/07/07	LJ	n/a	n/a	VM43

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	7.2	ug/kg	
71-43-2	Benzene	ND	5.0	1.4	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.4	ug/kg	
75-25-2	Bromoform	ND	5.0	1.2	ug/kg	
71-36-3	n-Butyl Alcohol	ND	50	50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.97	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.4	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.4	ug/kg	
67-66-3	Chloroform	ND	5.0	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.1	ug/kg	
75-15-0	Carbon disulfide	ND	10	1.3	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.1	ug/kg	
110-82-7	Cyclohexane	ND	5.0	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.3	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.5	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.4	ug/kg	
123-91-1	1,4-Dioxane	ND	250	24	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.4	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.4	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.3	ug/kg	
60-29-7	Ethyl Ether	ND	5.0	5.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.1	ug/kg	

5
5

Method Blank Summary

Page 2 of 2

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM43-MB	M0001020.D 1		12/07/07	LJ	n/a	n/a	VM43

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	50	6.8	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.2	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	50	7.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.5	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.5	ug/kg	
74-95-3	Methylene bromide	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	2.5	ug/kg	
78-93-3	Methyl ethyl ketone	ND	50	6.7	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.1	ug/kg	
100-42-5	Styrene	ND	5.0	1.3	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.4	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.4	ug/kg	
108-05-4	Vinyl Acetate	ND	25	7.6	ug/kg	
1330-20-7	Xylene (total)	ND	15	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	114%	68-127%
2037-26-5	Toluene-D8	122%	76-139%
460-00-4	4-Bromofluorobenzene	118%	68-167%
17060-07-0	1,2-Dichloroethane-D4	105%	56-121%

Method Blank Summary

Page 1 of 2

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM44-MB	M0001044.D 1		12/08/07	LJ	n/a	n/a	VM44

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	7.2	ug/kg	
71-43-2	Benzene	ND	5.0	1.4	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.4	ug/kg	
75-25-2	Bromoform	ND	5.0	1.2	ug/kg	
71-36-3	n-Butyl Alcohol	ND	50	50	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.97	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.4	ug/kg	
75-00-3	Chloroethane	ND	5.0	1.4	ug/kg	
67-66-3	Chloroform	ND	5.0	1.3	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.1	ug/kg	
75-15-0	Carbon disulfide	ND	10	1.3	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.1	ug/kg	
110-82-7	Cyclohexane	ND	5.0	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.3	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.5	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.4	ug/kg	
123-91-1	1,4-Dioxane	ND	250	24	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.4	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.4	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.3	ug/kg	
60-29-7	Ethyl Ether	ND	5.0	5.0	ug/kg	
110-54-3	Hexane	ND	5.0	1.1	ug/kg	

5
5

Method Blank Summary

Page 2 of 2

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM44-MB	M0001044.D 1		12/08/07	LJ	n/a	n/a	VM44

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	50	6.8	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.2	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	50	7.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.5	ug/kg	
74-87-3	Methyl chloride	ND	5.0	1.5	ug/kg	
74-95-3	Methylene bromide	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	2.5	ug/kg	
78-93-3	Methyl ethyl ketone	ND	50	6.7	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.1	ug/kg	
100-42-5	Styrene	ND	5.0	1.3	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.4	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.4	ug/kg	
108-05-4	Vinyl Acetate	ND	25	7.6	ug/kg	
1330-20-7	Xylene (total)	ND	15	3.8	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	115%	68-127%
2037-26-5	Toluene-D8	122%	76-139%
460-00-4	4-Bromofluorobenzene	120%	68-167%
17060-07-0	1,2-Dichloroethane-D4	103%	56-121%

Blank Spike Summary

Page 1 of 3

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2790-BS	F0088502.D	1	12/04/07	ZLH	n/a	n/a	VF2790

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-10, T19891-13, T19891-19, T19891-20, T19891-21, T19891-22

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	121	97	46-148
71-43-2	Benzene	25	25.6	102	73-121
108-86-1	Bromobenzene	25	24.2	97	72-116
74-97-5	Bromochloromethane	25	24.3	97	67-118
75-27-4	Bromodichloromethane	25	23.3	93	69-119
75-25-2	Bromoform	25	24.9	100	58-117
71-36-3	n-Butyl Alcohol	250	259	104	50-150 ^a
104-51-8	n-Butylbenzene	25	24.8	99	67-126
98-06-6	tert-Butylbenzene	25	23.6	94	70-124
108-90-7	Chlorobenzene	25	25.0	100	76-113
75-00-3	Chloroethane	25	27.3	109	68-138
67-66-3	Chloroform	25	25.5	102	71-118
95-49-8	o-Chlorotoluene	25	24.1	96	72-120
106-43-4	p-Chlorotoluene	25	24.1	96	72-120
75-15-0	Carbon disulfide	25	25.2	101	52-132
56-23-5	Carbon tetrachloride	25	26.0	104	71-132
110-82-7	Cyclohexane	25	24.5	98	71-134
75-34-3	1,1-Dichloroethane	25	25.7	103	71-123
75-35-4	1,1-Dichloroethylene	25	24.7	99	65-132
563-58-6	1,1-Dichloropropene	25	25.8	103	75-131
96-12-8	1,2-Dibromo-3-chloropropane	25	24.4	98	40-137
106-93-4	1,2-Dibromoethane	25	24.2	97	68-117
107-06-2	1,2-Dichloroethane	25	24.0	96	66-122
78-87-5	1,2-Dichloropropane	25	24.1	96	71-119
142-28-9	1,3-Dichloropropane	25	23.8	95	69-117
123-91-1	1,4-Dioxane	500	595	119	35-154
594-20-7	2,2-Dichloropropane	25	26.2	105	61-137
124-48-1	Dibromochloromethane	25	23.7	95	68-116
75-71-8	Dichlorodifluoromethane	25	35.0	140	34-165
156-59-2	cis-1,2-Dichloroethylene	25	23.0	92	70-117
10061-01-5	cis-1,3-Dichloropropene	25	24.3	97	69-122
156-60-5	trans-1,2-Dichloroethylene	25	25.4	102	71-127
10061-02-6	trans-1,3-Dichloropropene	25	25.4	102	70-127
100-41-4	Ethylbenzene	25	25.3	101	75-117
60-29-7	Ethyl Ether	25	21.6	86	50-150 ^a
110-54-3	hexane	25	24.4	98	56-139

5.2
5

Blank Spike Summary

Page 2 of 3

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2790-BS	F0088502.D	1	12/04/07	ZLH	n/a	n/a	VF2790

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-10, T19891-13, T19891-19, T19891-20, T19891-21, T19891-22

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
591-78-6	2-Hexanone	125	130	104	42-137
87-68-3	Hexachlorobutadiene	25	28.1	112	60-135
98-82-8	Isopropylbenzene	25	25.9	104	72-129
99-87-6	p-Isopropyltoluene	25	25.9	104	73-123
108-10-1	4-Methyl-2-pentanone	125	129	103	53-134
74-83-9	Methyl bromide	25	27.3	109	58-133
74-87-3	Methyl chloride	25	28.2	113	55-143
74-95-3	Methylene bromide	25	24.7	99	66-121
75-09-2	Methylene chloride	25	23.6	94	60-124
78-93-3	Methyl ethyl ketone	125	127	102	49-135
103-65-1	n-Propylbenzene	25	24.8	99	72-124
100-42-5	Styrene	25	23.0	92	67-114
630-20-6	1,1,1,2-Tetrachloroethane	25	24.5	98	73-113
71-55-6	1,1,1-Trichloroethane	25	25.7	103	71-128
79-34-5	1,1,2,2-Tetrachloroethane	25	24.7	99	62-124
79-00-5	1,1,2-Trichloroethane	25	24.0	96	68-117
87-61-6	1,2,3-Trichlorobenzene	25	31.0	124	39-144
96-18-4	1,2,3-Trichloropropane	25	23.0	92	59-121
120-82-1	1,2,4-Trichlorobenzene	25	27.2	109	49-129
95-63-6	1,2,4-Trimethylbenzene	25	24.7	99	73-119
108-67-8	1,3,5-Trimethylbenzene	25	25.1	100	72-122
127-18-4	Tetrachloroethylene	25	26.0	104	74-123
108-88-3	Toluene	25	25.3	101	75-119
79-01-6	Trichloroethylene	25	24.7	99	72-123
75-69-4	Trichlorofluoromethane	25	25.9	104	53-161
75-01-4	Vinyl chloride	25	26.6	106	62-150
108-05-4	Vinyl Acetate	125	153	122	21-150
1330-20-7	Xylene (total)	75	76.1	101	75-118

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	76-125%
17060-07-0	1,2-Dichloroethane-D4	106%	69-128%
2037-26-5	Toluene-D8	99%	80-121%
460-00-4	4-Bromofluorobenzene	97%	69-142%

5.2
5

Blank Spike Summary

Page 3 of 3

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF2790-BS	F0088502.D	1	12/04/07	ZLH	n/a	n/a	VF2790

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-10, T19891-13, T19891-19, T19891-20, T19891-21, T19891-22

(a) Advisory control limits.

5.2

5

Blank Spike Summary

Page 1 of 3

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM43-BS	M0001018.D 1		12/07/07	LJ	n/a	n/a	VM43

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	247	99	58-157
71-43-2	Benzene	50	49.0	98	74-121
108-86-1	Bromobenzene	50	50.9	102	74-123
74-97-5	Bromochloromethane	50	48.6	97	76-120
75-27-4	Bromodichloromethane	50	46.8	94	77-120
75-25-2	Bromoform	50	51.7	103	76-124
71-36-3	n-Butyl Alcohol	500	532	106	50-150 ^a
104-51-8	n-Butylbenzene	50	51.7	103	70-137
98-06-6	tert-Butylbenzene	50	48.3	97	71-127
108-90-7	Chlorobenzene	50	49.3	99	79-119
75-00-3	Chloroethane	50	49.5	99	56-139
67-66-3	Chloroform	50	49.8	100	74-119
95-49-8	o-Chlorotoluene	50	51.5	103	70-126
106-43-4	p-Chlorotoluene	50	51.8	104	73-126
75-15-0	Carbon disulfide	50	47.9	96	42-137
56-23-5	Carbon tetrachloride	50	49.3	99	63-129
110-82-7	Cyclohexane	50	47.3	95	56-137
75-34-3	1,1-Dichloroethane	50	49.1	98	71-123
75-35-4	1,1-Dichloroethylene	50	48.0	96	57-132
563-58-6	1,1-Dichloropropene	50	48.2	96	69-131
96-12-8	1,2-Dibromo-3-chloropropane	50	52.6	105	56-148
106-93-4	1,2-Dibromoethane	50	50.9	102	81-119
107-06-2	1,2-Dichloroethane	50	47.7	95	75-122
78-87-5	1,2-Dichloropropane	50	48.2	96	75-121
142-28-9	1,3-Dichloropropane	50	49.3	99	76-121
123-91-1	1,4-Dioxane	1000	953	95	59-155
594-20-7	2,2-Dichloropropane	50	49.6	99	64-134
124-48-1	Dibromochloromethane	50	51.6	103	81-119
75-71-8	Dichlorodifluoromethane	50	39.2	78	20-170
156-59-2	cis-1,2-Dichloroethylene	50	48.9	98	74-119
10061-01-5	cis-1,3-Dichloropropene	50	52.6	105	80-126
156-60-5	trans-1,2-Dichloroethylene	50	48.0	96	69-129
10061-02-6	trans-1,3-Dichloropropene	50	54.0	108	82-136
100-41-4	Ethylbenzene	50	49.8	100	75-122
60-29-7	Ethyl Ether	50	53.1	106	50-150 ^a
110-54-3	Hexane	50	48.2	96	50-142

5.2
5

Blank Spike Summary

Page 2 of 3

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM43-BS	M0001018.D 1		12/07/07	LJ	n/a	n/a	VM43

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
591-78-6	2-Hexanone	250	257	103	49-155
87-68-3	Hexachlorobutadiene	50	52.8	106	61-139
98-82-8	Isopropylbenzene	50	52.7	105	71-134
99-87-6	p-Isopropyltoluene	50	52.0	104	73-130
108-10-1	4-Methyl-2-pentanone	250	254	102	65-145
74-83-9	Methyl bromide	50	47.7	95	45-137
74-87-3	Methyl chloride	50	45.5	91	43-144
74-95-3	Methylene bromide	50	50.1	100	79-121
75-09-2	Methylene chloride	50	45.9	92	66-130
78-93-3	Methyl ethyl ketone	250	249	100	69-137
103-65-1	n-Propylbenzene	50	51.6	103	69-129
100-42-5	Styrene	50	46.8	94	72-122
630-20-6	1,1,1,2-Tetrachloroethane	50	50.1	100	79-117
71-55-6	1,1,1-Trichloroethane	50	49.7	99	63-131
79-34-5	1,1,2,2-Tetrachloroethane	50	52.5	105	67-135
79-00-5	1,1,2-Trichloroethane	50	50.3	101	76-120
87-61-6	1,2,3-Trichlorobenzene	50	53.3	107	58-149
96-18-4	1,2,3-Trichloropropane	50	47.0	94	72-125
120-82-1	1,2,4-Trichlorobenzene	50	54.0	108	60-147
95-63-6	1,2,4-Trimethylbenzene	50	50.5	101	74-126
108-67-8	1,3,5-Trimethylbenzene	50	51.5	103	72-126
127-18-4	Tetrachloroethylene	50	50.5	101	68-127
108-88-3	Toluene	50	48.8	98	74-122
79-01-6	Trichloroethylene	50	47.6	95	72-122
75-69-4	Trichlorofluoromethane	50	47.2	94	51-145
75-01-4	Vinyl chloride	50	44.6	89	40-149
108-05-4	Vinyl Acetate	250	303	121	52-181
1330-20-7	Xylene (total)	150	151	101	76-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	113%	68-127%
2037-26-5	Toluene-D8	122%	76-139%
460-00-4	4-Bromofluorobenzene	117%	68-167%
17060-07-0	1,2-Dichloroethane-D4	108%	56-121%

5.2
5

Blank Spike Summary

Page 3 of 3

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM43-BS	M0001018.D 1		12/07/07	LJ	n/a	n/a	VM43

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9

(a) Advisory control limits.

5.2

5

Blank Spike Summary

Page 1 of 3

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM44-BS	M0001042.D 1		12/08/07	LJ	n/a	n/a	VM44

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	256	102	58-157
71-43-2	Benzene	50	49.9	100	74-121
108-86-1	Bromobenzene	50	50.6	101	74-123
74-97-5	Bromochloromethane	50	51.2	102	76-120
75-27-4	Bromodichloromethane	50	49.0	98	77-120
75-25-2	Bromoform	50	58.4	117	76-124
71-36-3	n-Butyl Alcohol	500	497	99	50-150 ^a
104-51-8	n-Butylbenzene	50	50.8	102	70-137
98-06-6	tert-Butylbenzene	50	46.7	93	71-127
108-90-7	Chlorobenzene	50	50.3	101	79-119
75-00-3	Chloroethane	50	47.0	94	56-139
67-66-3	Chloroform	50	50.3	101	74-119
95-49-8	o-Chlorotoluene	50	51.1	102	70-126
106-43-4	p-Chlorotoluene	50	51.2	102	73-126
75-15-0	Carbon disulfide	50	48.3	97	42-137
56-23-5	Carbon tetrachloride	50	49.7	99	63-129
110-82-7	Cyclohexane	50	48.6	97	56-137
75-34-3	1,1-Dichloroethane	50	49.2	98	71-123
75-35-4	1,1-Dichloroethylene	50	47.7	95	57-132
563-58-6	1,1-Dichloropropene	50	47.3	95	69-131
96-12-8	1,2-Dibromo-3-chloropropane	50	57.8	116	56-148
106-93-4	1,2-Dibromoethane	50	52.9	106	81-119
107-06-2	1,2-Dichloroethane	50	48.5	97	75-122
78-87-5	1,2-Dichloropropane	50	49.0	98	75-121
142-28-9	1,3-Dichloropropane	50	51.1	102	76-121
123-91-1	1,4-Dioxane	1000	910	91	59-155
594-20-7	2,2-Dichloropropane	50	50.1	100	64-134
124-48-1	Dibromochloromethane	50	53.6	107	81-119
75-71-8	Dichlorodifluoromethane	50	36.0	72	20-170
156-59-2	cis-1,2-Dichloroethylene	50	48.7	97	74-119
10061-01-5	cis-1,3-Dichloropropene	50	53.7	107	80-126
156-60-5	trans-1,2-Dichloroethylene	50	47.7	95	69-129
10061-02-6	trans-1,3-Dichloropropene	50	54.3	109	82-136
100-41-4	Ethylbenzene	50	50.2	100	75-122
60-29-7	Ethyl Ether	50	48.5	97	50-150 ^a
110-54-3	Hexane	50	49.8	100	50-142

5.2
5

Blank Spike Summary

Page 2 of 3

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM44-BS	M0001042.D 1		12/08/07	LJ	n/a	n/a	VM44

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
591-78-6	2-Hexanone	250	271	108	49-155
87-68-3	Hexachlorobutadiene	50	51.1	102	61-139
98-82-8	Isopropylbenzene	50	51.8	104	71-134
99-87-6	p-Isopropyltoluene	50	51.4	103	73-130
108-10-1	4-Methyl-2-pentanone	250	269	108	65-145
74-83-9	Methyl bromide	50	46.4	93	45-137
74-87-3	Methyl chloride	50	43.9	88	43-144
74-95-3	Methylene bromide	50	52.5	105	79-121
75-09-2	Methylene chloride	50	47.1	94	66-130
78-93-3	Methyl ethyl ketone	250	259	104	69-137
103-65-1	n-Propylbenzene	50	50.3	101	69-129
100-42-5	Styrene	50	47.9	96	72-122
630-20-6	1,1,1,2-Tetrachloroethane	50	51.8	104	79-117
71-55-6	1,1,1-Trichloroethane	50	50.1	100	63-131
79-34-5	1,1,2,2-Tetrachloroethane	50	54.8	110	67-135
79-00-5	1,1,2-Trichloroethane	50	51.2	102	76-120
87-61-6	1,2,3-Trichlorobenzene	50	54.0	108	58-149
96-18-4	1,2,3-Trichloropropane	50	50.0	100	72-125
120-82-1	1,2,4-Trichlorobenzene	50	54.8	110	60-147
95-63-6	1,2,4-Trimethylbenzene	50	49.9	100	74-126
108-67-8	1,3,5-Trimethylbenzene	50	50.8	102	72-126
127-18-4	Tetrachloroethylene	50	50.3	101	68-127
108-88-3	Toluene	50	48.9	98	74-122
79-01-6	Trichloroethylene	50	48.3	97	72-122
75-69-4	Trichlorofluoromethane	50	45.3	91	51-145
75-01-4	Vinyl chloride	50	42.3	85	40-149
108-05-4	Vinyl Acetate	250	317	127	52-181
1330-20-7	Xylene (total)	150	151	101	76-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	118%	68-127%
2037-26-5	Toluene-D8	121%	76-139%
460-00-4	4-Bromofluorobenzene	116%	68-167%
17060-07-0	1,2-Dichloroethane-D4	107%	56-121%

5.2
5

Blank Spike Summary

Page 3 of 3

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM44-BS	M0001042.D 1		12/08/07	LJ	n/a	n/a	VM44

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18

(a) Advisory control limits.

5.2

5

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19878-19MS	F0088520.D	1	12/05/07	ZLH	n/a	n/a	VF2790
T19878-19MSD	F0088521.D	1	12/05/07	ZLH	n/a	n/a	VF2790
T19878-19	F0088519.D	1	12/05/07	ZLH	n/a	n/a	VF2790

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-10, T19891-13, T19891-19, T19891-20, T19891-21, T19891-22

CAS No.	Compound	T19878-19 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	12.4	J	125	128	92	129	93	1	31-152/36
71-43-2	Benzene	2.0 U		25	27.5	110	27.0	108	2	74-125/18
108-86-1	Bromobenzene	2.0 U		25	25.7	103	25.3	101	2	74-115/22
74-97-5	Bromochloromethane	2.0 U		25	25.2	101	24.8	99	2	67-120/25
75-27-4	Bromodichloromethane	2.0 U		25	24.1	96	23.9	96	1	67-124/22
75-25-2	Bromoform	2.0 U		25	25.8	103	26.4	106	2	55-119/28
71-36-3	n-Butyl Alcohol	2.0 U		250	264	106	260	104	2	50-150/30 ^a
104-51-8	n-Butylbenzene	2.0 U		25	25.5	102	25.3	101	1	61-132/21
98-06-6	tert-Butylbenzene	2.0 U		25	26.3	105	25.0	100	5	70-124/27
108-90-7	Chlorobenzene	2.0 U		25	26.6	106	26.2	105	2	82-112/20
75-00-3	Chloroethane	2.0 U		25	28.4	114	27.6	110	3	67-144/27
67-66-3	Chloroform	2.0 U		25	26.9	108	26.4	106	2	72-123/20
95-49-8	o-Chlorotoluene	2.0 U		25	25.8	103	25.6	102	1	74-121/20
106-43-4	p-Chlorotoluene	2.0 U		25	25.7	103	25.6	102	0	74-119/22
75-15-0	Carbon disulfide	2.0 U		25	27.8	111	26.9	108	3	48-138/23
56-23-5	Carbon tetrachloride	2.0 U		25	28.2	113	27.2	109	4	70-136/23
110-82-7	Cyclohexane	2.0 U		25	28.7	115	27.7	111	4	68-139/22
75-34-3	1,1-Dichloroethane	2.0 U		25	27.5	110	27.1	108	1	73-128/21
75-35-4	1,1-Dichloroethylene	2.0 U		25	26.9	108	26.2	105	3	60-138/24
563-58-6	1,1-Dichloropropene	2.0 U		25	27.4	110	26.9	108	2	76-133/22
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U		25	25.9	104	26.4	106	2	23-150/36
106-93-4	1,2-Dibromoethane	2.0 U		25	25.8	103	26.0	104	1	68-117/26
107-06-2	1,2-Dichloroethane	2.0 U		25	25.4	102	24.3	97	4	66-129/22
78-87-5	1,2-Dichloropropane	2.0 U		25	25.9	104	25.4	102	2	73-122/22
142-28-9	1,3-Dichloropropane	2.0 U		25	25.8	103	25.9	104	0	69-121/25
123-91-1	1,4-Dioxane	250 U		500	469	94	548	110	16	19-152/37
594-20-7	2,2-Dichloropropane	2.0 U		25	23.7	95	22.7	91	4	50-145/29
124-48-1	Dibromochloromethane	2.0 U		25	25.3	101	25.1	100	1	68-117/24
75-71-8	Dichlorodifluoromethane	2.0 U		25	39.9	160	41.2	165	3	14-184/30
156-59-2	cis-1,2-Dichloroethylene	2.0 U		25	24.2	97	24.0	96	1	72-120/23
10061-01-5	cis-1,3-Dichloropropene	2.0 U		25	25.0	100	24.6	98	2	62-126/23
156-60-5	trans-1,2-Dichloroethylene	2.0 U		25	27.0	108	26.3	105	3	72-130/23
10061-02-6	trans-1,3-Dichloropropene	2.0 U		25	26.2	105	26.0	104	1	62-131/24
100-41-4	Ethylbenzene	2.0 U		25	27.3	109	26.7	107	2	77-119/20
60-29-7	Ethyl Ether	10 U		25	22.7	91	23.3	93	3	50-150/30 ^a
110-54-3	hexane	2.0 U		25	26.0	104	25.5	102	2	53-137/23

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19878-19MS	F0088520.D	1	12/05/07	ZLH	n/a	n/a	VF2790
T19878-19MSD	F0088521.D	1	12/05/07	ZLH	n/a	n/a	VF2790
T19878-19	F0088519.D	1	12/05/07	ZLH	n/a	n/a	VF2790

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-10, T19891-13, T19891-19, T19891-20, T19891-21, T19891-22

CAS No.	Compound	T19878-19 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	10 U	125	136	109	138	110	1	23-154/40
87-68-3	Hexachlorobutadiene	2.0 U	25	25.2	101	26.2	105	4	51-130/31
98-82-8	Isopropylbenzene	2.0 U	25	27.6	110	27.1	108	2	72-130/24
99-87-6	p-Isopropyltoluene	2.0 U	25	26.5	106	26.2	105	1	73-121/22
108-10-1	4-Methyl-2-pentanone	10 U	125	135	108	136	109	1	41-147/30
74-83-9	Methyl bromide	2.0 U	25	23.8	95	24.6	98	3	58-134/25
74-87-3	Methyl chloride	2.0 U	25	23.7	95	24.1	96	2	47-151/27
74-95-3	Methylene bromide	2.0 U	25	27.8	111	25.9	104	7	68-124/25
75-09-2	Methylene chloride	5.0 U	25	24.4	98	24.3	97	0	52-125/24
78-93-3	Methyl ethyl ketone	10 U	125	127	102	128	102	1	42-142/39
103-65-1	n-Propylbenzene	2.0 U	25	26.5	106	25.7	103	3	72-124/23
100-42-5	Styrene	2.0 U	25	24.7	99	24.5	98	1	68-115/26
630-20-6	1,1,1,2-Tetrachloroethane	2.0 U	25	25.8	103	25.8	103	0	77-113/21
71-55-6	1,1,1-Trichloroethane	2.0 U	25	27.3	109	26.9	108	1	72-134/22
79-34-5	1,1,2,2-Tetrachloroethane	2.0 U	25	27.8	111	27.4	110	1	55-132/34
79-00-5	1,1,2-Trichloroethane	2.0 U	25	25.9	104	25.7	103	1	66-121/26
87-61-6	1,2,3-Trichlorobenzene	2.0 U	25	24.9	100	27.9	112	11	23-142/41
96-18-4	1,2,3-Trichloropropane	2.0 U	25	24.8	99	24.5	98	1	52-128/27
120-82-1	1,2,4-Trichlorobenzene	2.0 U	25	24.9	100	25.8	103	4	34-134/30
95-63-6	1,2,4-Trimethylbenzene	2.0 U	25	25.8	103	25.7	103	0	73-120/20
108-67-8	1,3,5-Trimethylbenzene	2.0 U	25	26.6	106	26.1	104	2	72-121/23
127-18-4	Tetrachloroethylene	2.0 U	25	26.8	107	26.7	107	0	75-122/23
108-88-3	Toluene	2.0 U	25	27.7	111	27.0	108	3	79-119/21
79-01-6	Trichloroethylene	2.0 U	25	26.6	106	25.9	104	3	75-124/21
75-69-4	Trichlorofluoromethane	2.0 U	25	29.3	117	28.7	115	2	46-162/27
75-01-4	Vinyl chloride	2.0 U	25	22.9	92	23.2	93	1	58-150/29
108-05-4	Vinyl Acetate	10 U	125	127	102	126	101	1	10-160/34
1330-20-7	Xylene (total)	6.0 U	75	82.7	110	80.6	107	3	78-119/20

CAS No.	Surrogate Recoveries	MS	MSD	T19878-19	Limits
1868-53-7	Dibromofluoromethane	99%	99%	99%	76-125%
17060-07-0	1,2-Dichloroethane-D4	102%	103%	100%	69-128%
2037-26-5	Toluene-D8	100%	101%	100%	80-121%
460-00-4	4-Bromofluorobenzene	98%	98%	102%	69-142%

5
51

Matrix Spike/Matrix Spike Duplicate Summary

Page 3 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19878-19MS	F0088520.D	1	12/05/07	ZLH	n/a	n/a	VF2790
T19878-19MSD	F0088521.D	1	12/05/07	ZLH	n/a	n/a	VF2790
T19878-19	F0088519.D	1	12/05/07	ZLH	n/a	n/a	VF2790

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-10, T19891-13, T19891-19, T19891-20, T19891-21, T19891-22

(a) Advisory control limits.

53

51

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19891-5MS	M0001038.D 1		12/08/07	LJ	n/a	n/a	VM43
T19891-5MSD	M0001039.D 1		12/08/07	LJ	n/a	n/a	VM43
T19891-5	M0001032.D 1		12/07/07	LJ	n/a	n/a	VM43

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9

CAS No.	Compound	T19891-5 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	30.7	J	293	320	99	305	96	5	28-156/37
71-43-2	Benzene	5.5 U		58.7	35.8	61	46.7	81	26*	52-121/25
108-86-1	Bromobenzene	5.5 U		58.7	45.0	77	54.5	95	19	48-127/28
74-97-5	Bromochloromethane	5.5 U		58.7	45.5	78	51.6	90	13	53-122/25
75-27-4	Bromodichloromethane	5.5 U		58.7	43.3	74	52.5	91	19	48-126/26
75-25-2	Bromoform	5.5 U		58.7	55.4	94	59.5	104	7	50-123/28
71-36-3	n-Butyl Alcohol	55 U		587	519	88	507	88	2	50-150/30 ^a
104-51-8	n-Butylbenzene	5.5 U		58.7	27.8	47	41.2	72	39*	29-142/28
98-06-6	tert-Butylbenzene	5.5 U		58.7	31.8	54	50.1	87	45*	39-132/27
108-90-7	Chlorobenzene	5.5 U		58.7	37.7	64	47.7	83	23	51-123/23
75-00-3	Chloroethane	5.5 U		58.7	61.0	104	60.3	105	1	32-137/26
67-66-3	Chloroform	5.5 U		58.7	38.3	65	48.7	85	24*	51-122/20
95-49-8	o-Chlorotoluene	5.5 U		58.7	39.2	67	50.2	87	25*	42-132/24
106-43-4	p-Chlorotoluene	5.5 U		58.7	40.0	68	50.8	88	24	41-131/24
75-15-0	Carbon disulfide	11 U		58.7	26.8	46	37.7	66	34*	23-130/27
56-23-5	Carbon tetrachloride	5.5 U		58.7	33.9	58	45.8	80	30	34-129/30
110-82-7	Cyclohexane	5.5 U		58.7	33.0	56	46.1	80	33*	29-136/25
75-34-3	1,1-Dichloroethane	5.5 U		58.7	35.9	61	46.6	81	26	47-125/35
75-35-4	1,1-Dichloroethylene	5.5 U		58.7	33.8	58	45.4	79	29	33-133/36
563-58-6	1,1-Dichloropropene	5.5 U		58.7	33.6	57	45.5	79	30	42-131/33
96-12-8	1,2-Dibromo-3-chloropropane	5.5 U		58.7	64.4	110	63.6	111	1	26-153/37
106-93-4	1,2-Dibromoethane	5.5 U		58.7	54.5	93	59.5	104	9	57-123/27
107-06-2	1,2-Dichloroethane	5.5 U		58.7	45.7	78	52.7	92	14	52-126/28
78-87-5	1,2-Dichloropropane	5.5 U		58.7	40.4	69	51.2	89	24	54-122/27
142-28-9	1,3-Dichloropropane	5.5 U		58.7	52.0	89	57.8	101	11	55-123/27
123-91-1	1,4-Dioxane	280 U		1170	1800	153	1640	143	9	28-160/37
594-20-7	2,2-Dichloropropane	5.5 U		58.7	32.6	56	42.4	74	26	36-132/32
124-48-1	Dibromochloromethane	5.5 U		58.7	50.4	86	57.9	101	14	55-122/24
75-71-8	Dichlorodifluoromethane	5.5 U		58.7	56.6	96	54.7	95	3	25-134/34
156-59-2	cis-1,2-Dichloroethylene	5.5 U		58.7	34.3	58	46.5	81	30*	53-118/22
10061-01-5	cis-1,3-Dichloropropene	5.5 U		58.7	45.3	77	53.4	93	16	46-130/18
156-60-5	trans-1,2-Dichloroethylene	5.5 U		58.7	33.8	58	45.4	79	29*	46-128/27
10061-02-6	trans-1,3-Dichloropropene	5.5 U		58.7	47.0	80	54.6	95	15	51-139/26
100-41-4	Ethylbenzene	5.5 U		58.7	35.4	60	46.6	81	27*	44-125/25
60-29-7	Ethyl Ether	5.5 U		58.7	54.1	92	55.0	96	2	50-150/30 ^a
110-54-3	Hexane	5.5 U		58.7	32.1	55	46.8	82	37*	21-137/25

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19891-5MS	M0001038.D 1		12/08/07	LJ	n/a	n/a	VM43
T19891-5MSD	M0001039.D 1		12/08/07	LJ	n/a	n/a	VM43
T19891-5	M0001032.D 1		12/07/07	LJ	n/a	n/a	VM43

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9

CAS No.	Compound	T19891-5 ug/kg	Spike Q	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	55 U	293	308	105	287	100	7	31-141/33
87-68-3	Hexachlorobutadiene	5.5 U	58.7	14.4	25	25.9	45	57*	13-143/33
98-82-8	Isopropylbenzene	5.5 U	58.7	37.9	65	50.1	87	28*	42-139/25
99-87-6	p-Isopropyltoluene	5.5 U	58.7	30.9	53	44.5	77	36*	38-132/25
108-10-1	4-Methyl-2-pentanone	55 U	293	325	111	307	107	6	41-141/33
74-83-9	Methyl bromide	5.5 U	58.7	55.3	94	53.5	93	3	20-132/30
74-87-3	Methyl chloride	5.5 U	58.7	58.0	99	56.9	99	2	28-139/32
74-95-3	Methylene bromide	5.5 U	58.7	51.2	87	56.1	98	9	54-125/22
75-09-2	Methylene chloride	11 U	58.7	42.8	73	50.7	88	17	39-135/28
78-93-3	Methyl ethyl ketone	55 U	293	311	106	295	103	5	41-134/30
103-65-1	n-Propylbenzene	5.5 U	58.7	36.8	63	49.5	86	29*	37-135/27
100-42-5	Styrene	5.5 U	58.7	36.8	63	46.6	81	24*	41-126/23
630-20-6	1,1,1,2-Tetrachloroethane	5.5 U	58.7	41.6	71	51.4	90	21	53-122/36
71-55-6	1,1,1-Trichloroethane	5.5 U	58.7	34.3	58	46.7	81	31	41-127/36
79-34-5	1,1,2,2-Tetrachloroethane	5.5 U	58.7	62.5	106	62.0	108	1	43-141/34
79-00-5	1,1,2-Trichloroethane	5.5 U	58.7	53.4	91	58.2	101	9	56-123/28
87-61-6	1,2,3-Trichlorobenzene	5.5 U	58.7	24.5	42	35.3	61	36*	12-151/31
96-18-4	1,2,3-Trichloropropane	5.5 U	58.7	71.8	122	69.5	121	3	45-137/33
120-82-1	1,2,4-Trichlorobenzene	5.5 U	58.7	26.1	44	37.1	65	35	13-148/39
95-63-6	1,2,4-Trimethylbenzene	5.5 U	58.7	38.6	66	50.1	87	26	39-131/37
108-67-8	1,3,5-Trimethylbenzene	5.5 U	58.7	37.0	63	49.3	86	29	39-132/35
127-18-4	Tetrachloroethylene	5.5 U	58.7	34.7	59	47.9	83	32*	41-127/25
108-88-3	Toluene	5.5 U	58.7	36.2	62	46.4	81	25*	48-126/23
79-01-6	Trichloroethylene	5.5 U	58.7	39.9	68	51.5	90	25*	43-127/24
75-69-4	Trichlorofluoromethane	5.5 U	58.7	65.7	112	63.5	111	3	28-143/27
75-01-4	Vinyl chloride	5.5 U	58.7	59.0	101	58.5	102	1	32-138/30
108-05-4	Vinyl Acetate	28 U	293	47.9	16*	59.3	21	21	18-163/39
1330-20-7	Xylene (total)	17 U	176	112	64	141	82	23*	43-128/22

CAS No.	Surrogate Recoveries	MS	MSD	T19891-5	Limits
1868-53-7	Dibromofluoromethane	113%	112%	111%	68-127%
2037-26-5	Toluene-D8	122%	122%	124%	76-139%
460-00-4	4-Bromofluorobenzene	129%	125%	121%	68-167%
17060-07-0	1,2-Dichloroethane-D4	103%	101%	103%	56-121%

5
51

Matrix Spike/Matrix Spike Duplicate Summary

Page 3 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19891-5MS	M0001038.D 1		12/08/07	LJ	n/a	n/a	VM43
T19891-5MSD	M0001039.D 1		12/08/07	LJ	n/a	n/a	VM43
T19891-5	M0001032.D 1		12/07/07	LJ	n/a	n/a	VM43

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9

(a) Advisory control limits.

53

51

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19984-1MS	M0001063.D 1		12/08/07	LJ	n/a	n/a	VM44
T19984-1MSD	M0001064.D 1		12/09/07	LJ	n/a	n/a	VM44
T19984-1	M0001060.D 1		12/08/07	LJ	n/a	n/a	VM44

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18

CAS No.	Compound	T19984-1 ug/kg	Spike Q	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	293	211	72	274	91	26	28-156/37
71-43-2	Benzene	ND	58.6	53.6	91	59.1	98	10	52-121/25
108-86-1	Bromobenzene	ND	58.6	52.5	90	57.4	95	9	48-127/28
74-97-5	Bromochloromethane	ND	58.6	49.9	85	58.0	96	15	53-122/25
75-27-4	Bromodichloromethane	ND	58.6	48.7	83	56.7	94	15	48-126/26
75-25-2	Bromoform	ND	58.6	51.7	88	61.8	103	18	50-123/28
71-36-3	n-Butyl Alcohol	ND	586	428	73	546	91	24	50-150/30 ^a
104-51-8	n-Butylbenzene	ND	58.6	52.7	90	53.4	89	1	29-142/28
98-06-6	tert-Butylbenzene	ND	58.6	56.9	97	61.6	102	8	39-132/27
108-90-7	Chlorobenzene	ND	58.6	52.0	89	56.9	95	9	51-123/23
75-00-3	Chloroethane	ND	58.6	55.5	95	60.3	100	8	32-137/26
67-66-3	Chloroform	ND	58.6	52.8	90	60.6	101	14	51-122/20
95-49-8	o-Chlorotoluene	ND	58.6	53.4	91	57.0	95	7	42-132/24
106-43-4	p-Chlorotoluene	ND	58.6	51.6	88	55.9	93	8	41-131/24
75-15-0	Carbon disulfide	ND	58.6	52.5	90	58.3	97	10	23-130/27
56-23-5	Carbon tetrachloride	ND	58.6	52.4	89	58.6	97	11	34-129/30
110-82-7	Cyclohexane	ND	58.6	49.7	85	55.3	92	11	29-136/25
75-34-3	1,1-Dichloroethane	ND	58.6	53.6	91	60.5	101	12	47-125/35
75-35-4	1,1-Dichloroethylene	ND	58.6	52.4	89	58.1	97	10	33-133/36
563-58-6	1,1-Dichloropropene	ND	58.6	52.0	89	56.1	93	8	42-131/33
96-12-8	1,2-Dibromo-3-chloropropane	ND	58.6	47.6	81	59.5	99	22	26-153/37
106-93-4	1,2-Dibromoethane	ND	58.6	50.0	85	59.8	99	18	57-123/27
107-06-2	1,2-Dichloroethane	ND	58.6	48.1	82	56.4	94	16	52-126/28
78-87-5	1,2-Dichloropropane	ND	58.6	50.8	87	57.3	95	12	54-122/27
142-28-9	1,3-Dichloropropane	ND	58.6	49.9	85	58.6	97	16	55-123/27
123-91-1	1,4-Dioxane	ND	1170	797	68	1040	86	26	28-160/37
594-20-7	2,2-Dichloropropane	ND	58.6	51.0	87	54.3	90	6	36-132/32
124-48-1	Dibromochloromethane	ND	58.6	51.1	87	59.7	99	16	55-122/24
75-71-8	Dichlorodifluoromethane	ND	58.6	43.1	73	47.6	79	10	25-134/34
156-59-2	cis-1,2-Dichloroethylene	ND	58.6	52.6	90	56.8	94	8	53-118/22
10061-01-5	cis-1,3-Dichloropropene	ND	58.6	50.8	87	57.4	95	12	46-130/18
156-60-5	trans-1,2-Dichloroethylene	ND	58.6	52.4	89	58.1	97	10	46-128/27
10061-02-6	trans-1,3-Dichloropropene	ND	58.6	51.2	87	58.9	98	14	51-139/26
100-41-4	Ethylbenzene	ND	58.6	53.1	91	57.4	95	8	44-125/25
60-29-7	Ethyl Ether	ND	58.6	45.1	77	55.6	92	21	50-150/30 ^a
110-54-3	Hexane	ND	58.6	52.6	90	57.7	96	9	21-137/25

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19984-1MS	M0001063.D	1	12/08/07	LJ	n/a	n/a	VM44
T19984-1MSD	M0001064.D	1	12/09/07	LJ	n/a	n/a	VM44
T19984-1	M0001060.D	1	12/08/07	LJ	n/a	n/a	VM44

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18

CAS No.	Compound	T19984-1 ug/kg	Spike Q	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD	
591-78-6	2-Hexanone	ND	293	234	80	292	97	22	31-141/33	
87-68-3	Hexachlorobutadiene	ND	58.6	53.7	92	53.3	89	1	13-143/33	
98-82-8	Isopropylbenzene	ND	58.6	55.1	94	59.7	99	8	42-139/25	
99-87-6	p-Isopropyltoluene	ND	58.6	53.1	91	55.8	93	5	38-132/25	
108-10-1	4-Methyl-2-pentanone	ND	293	236	80	297	99	23	41-141/33	
74-83-9	Methyl bromide	ND	58.6	53.0	90	58.0	96	9	20-132/30	
74-87-3	Methyl chloride	ND	58.6	52.5	90	56.5	94	7	28-139/32	
74-95-3	Methylene bromide	ND	58.6	49.8	85	61.1	102	20	54-125/22	
75-09-2	Methylene chloride	3.7	J	58.6	48.1	76	57.1	89	17	39-135/28
78-93-3	Methyl ethyl ketone	ND	293	219	75	276	92	23	41-134/30	
103-65-1	n-Propylbenzene	ND	58.6	53.5	91	56.5	94	5	37-135/27	
100-42-5	Styrene	ND	58.6	47.7	81	52.6	87	10	41-126/23	
630-20-6	1,1,1,2-Tetrachloroethane	ND	58.6	50.6	86	58.7	98	15	53-122/36	
71-55-6	1,1,1-Trichloroethane	ND	58.6	53.0	90	59.1	98	11	41-127/36	
79-34-5	1,1,2,2-Tetrachloroethane	ND	58.6	50.8	87	61.1	102	18	43-141/34	
79-00-5	1,1,2-Trichloroethane	ND	58.6	49.7	85	58.1	97	16	56-123/28	
87-61-6	1,2,3-Trichlorobenzene	ND	58.6	49.2	84	52.7	88	7	12-151/31	
96-18-4	1,2,3-Trichloropropane	ND	58.6	46.3	79	55.7	93	18	45-137/33	
120-82-1	1,2,4-Trichlorobenzene	ND	58.6	48.3	82	51.4	85	6	13-148/39	
95-63-6	1,2,4-Trimethylbenzene	ND	58.6	51.5	88	54.8	91	6	39-131/37	
108-67-8	1,3,5-Trimethylbenzene	ND	58.6	53.2	91	57.2	95	7	39-132/35	
127-18-4	Tetrachloroethylene	ND	58.6	53.5	91	58.0	96	8	41-127/25	
108-88-3	Toluene	ND	58.6	51.6	88	57.6	96	11	48-126/23	
79-01-6	Trichloroethylene	ND	58.6	52.6	90	57.5	96	9	43-127/24	
75-69-4	Trichlorofluoromethane	ND	58.6	50.8	87	56.1	93	10	28-143/27	
75-01-4	Vinyl chloride	ND	58.6	51.4	88	55.5	92	8	32-138/30	
108-05-4	Vinyl Acetate	ND	293	166	57	93.6	31	56*	18-163/39	
1330-20-7	Xylene (total)	ND	176	158	90	172	95	8	43-128/22	

CAS No.	Surrogate Recoveries	MS	MSD	T19984-1	Limits
1868-53-7	Dibromofluoromethane	112%	121%	109%	68-127%
2037-26-5	Toluene-D8	120%	129%	121%	76-139%
460-00-4	4-Bromofluorobenzene	114%	124%	117%	68-167%
17060-07-0	1,2-Dichloroethane-D4	103%	113%	100%	56-121%

Matrix Spike/Matrix Spike Duplicate Summary

Page 3 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T19984-1MS	M0001063.D 1		12/08/07	LJ	n/a	n/a	VM44
T19984-1MSD	M0001064.D 1		12/09/07	LJ	n/a	n/a	VM44
T19984-1	M0001060.D 1		12/08/07	LJ	n/a	n/a	VM44

The QC reported here applies to the following samples:

Method: SW846 8260B

T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18

(a) Advisory control limits.

53

51



IT'S ALL IN THE CHEMISTRY

GC/MS Semi-volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 2

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8602-MB	A24606.D	1	12/03/07	SC	12/03/07	OP8602	EA1532

The QC reported here applies to the following samples:

Method: SW846 8270C

T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	ND	170	170	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	53	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	56	ug/kg	
95-48-7	2-Methylphenol	ND	170	36	ug/kg	
	3&4-Methylphenol	ND	170	55	ug/kg	
100-02-7	4-Nitrophenol	ND	170	66	ug/kg	
108-95-2	Phenol	ND	170	67	ug/kg	
120-12-7	Anthracene	ND	170	54	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	62	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	54	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	70	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	77	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	80	ug/kg	
218-01-9	Chrysene	ND	170	55	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	57	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	52	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	46	ug/kg	
57-97-6	7,12-Dimethylbenz(a)anthracene	ND	170	170	ug/kg	
226-36-8	Dibenz(a,h)acridine	ND	170	170	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	170	58	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	170	82	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	150	ug/kg	
84-66-2	Diethyl phthalate	ND	170	46	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	41	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	170	83	ug/kg	
206-44-0	Fluoranthene	ND	170	75	ug/kg	
95-13-6	Indene	ND	830	830	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	40	ug/kg	
	6-Methyl Chrysene	ND	170	170	ug/kg	
91-20-3	Naphthalene	ND	170	40	ug/kg	
85-01-8	Phenanthrene	ND	170	62	ug/kg	
129-00-0	Pyrene	ND	170	81	ug/kg	
91-22-5	Quinoline	ND	170	170	ug/kg	
	1,3&1,4-Cyclohexanediol	ND	170	170	ug/kg	
931-17-9	1,2-Cyclohexanediol	ND	170	170	ug/kg	
98-85-1	1-Phenylethanol	ND	170	170	ug/kg	

Method Blank Summary

Page 2 of 2

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8602-MB	A24606.D	1	12/03/07	SC	12/03/07	OP8602	EA1532

The QC reported here applies to the following samples:

Method: SW846 8270C

T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	47% 26-124%
4165-62-2	Phenol-d5	51% 19-106%
118-79-6	2,4,6-Tribromophenol	55% 18-129%
4165-60-0	Nitrobenzene-d5	56% 18-104%
321-60-8	2-Fluorobiphenyl	58% 21-114%
1718-51-0	Terphenyl-d14	58% 24-149%

6.1



Method Blank Summary

Page 1 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8628-MB	H24610.D	1	12/06/07	SC	12/05/07	OP8628	EH1384

The QC reported here applies to the following samples:

Method: SW846 8270C

T19891-10, T19891-13, T19891-19

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	ND	10	10	ug/l	
65-85-0	Benzoic Acid	ND	10	0.58	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.4	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.2	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.8	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	2.4	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	3.9	ug/l	
95-48-7	2-Methylphenol	ND	5.0	1.2	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
100-02-7	4-Nitrophenol	ND	25	1.7	ug/l	
87-86-5	Pentachlorophenol	ND	25	4.0	ug/l	
108-95-2	Phenol	ND	5.0	0.52	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.8	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.5	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.5	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.6	ug/l	
120-12-7	Anthracene	ND	5.0	1.8	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.5	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	2.1	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	1.7	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.9	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	1.2	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	1.6	ug/l	
86-74-8	Carbazole	ND	5.0	1.7	ug/l	
218-01-9	Chrysene	ND	5.0	1.3	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	1.6	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	1.2	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	1.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.6	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.6	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.5	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	2.4	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	1.7	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	3.7	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthracene	ND	5.0	5.0	ug/l	

Method Blank Summary

Page 2 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8628-MB	H24610.D	1	12/06/07	SC	12/05/07	OP8628	EH1384

The QC reported here applies to the following samples:

Method: SW846 8270C

T19891-10, T19891-13, T19891-19

CAS No.	Compound	Result	RL	MDL	Units	Q
226-36-8	Dibenz(a,h)acridine	ND	5.0	1.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	1.3	ug/l	
132-64-9	Dibenzofuran	ND	5.0	2.3	ug/l	
122-39-4	Diphenylamine	ND	5.0	1.9	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	1.6	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	1.3	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	1.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	1.8	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.5	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.6	ug/l	
86-73-7	Fluorene	ND	5.0	2.1	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	1.9	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.9	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.4	ug/l	
67-72-1	Hexachloroethane	ND	5.0	1.7	ug/l	
95-13-6	Indene	ND	15	14	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.4	ug/l	
78-59-1	Isophorone	ND	5.0	1.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	1.7	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	2.0	ug/l	
	6-Methyl Chrysene	ND	5.0	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	2.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	2.7	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.5	ug/l	
98-95-3	Nitrobenzene	ND	5.0	1.4	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	1.7	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	1.9	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.6	ug/l	
129-00-0	Pyrene	ND	5.0	1.1	ug/l	
91-22-5	Quinoline	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/l	
98-85-1	1-Phenylethanol	ND	5.0	5.0	ug/l	
931-17-9	1,2-Cyclohexanediol	ND	5.0	5.0	ug/l	
	1,3&1,4-Cyclohexanediol	ND	5.0	5.0	ug/l	

Method Blank Summary

Page 3 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8628-MB	H24610.D	1	12/06/07	SC	12/05/07	OP8628	EH1384

The QC reported here applies to the following samples:

Method: SW846 8270C

T19891-10, T19891-13, T19891-19

6.1

6

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	33% 10-66%
4165-62-2	Phenol-d5	25% 10-53%
118-79-6	2,4,6-Tribromophenol	62% 32-128%
4165-60-0	Nitrobenzene-d5	59% 29-115%
321-60-8	2-Fluorobiphenyl	57% 34-113%
1718-51-0	Terphenyl-d14	61% 12-145%

Method Blank Summary

Page 1 of 1

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8629-MB	A24682.D	1	12/06/07	SC	12/05/07	OP8629	EA1536

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

T19891-10, T19891-13, T19891-19

6.1
6

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.20	0.055	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.099	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.056	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.046	ug/l	

CAS No. Surrogate Recoveries Limits

4165-60-0	Nitrobenzene-d5	57% ^a	35-114%
321-60-8	2-Fluorobiphenyl	47% ^a	43-116%
1718-51-0	Terphenyl-d14	55% ^a	33-141%

(a) Recovery was adjusted for 10x spiking.

Blank Spike Summary

Page 1 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8602-BS	A24607.D	1	12/03/07	SC	12/03/07	OP8602	EA1532

The QC reported here applies to the following samples:

Method: SW846 8270C

T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	1670	1160	70	16-113
95-57-8	2-Chlorophenol	1670	1120	67	48-112
59-50-7	4-Chloro-3-methyl phenol	1670	1500	90	55-115
120-83-2	2,4-Dichlorophenol	1670	1270	76	53-110
105-67-9	2,4-Dimethylphenol	1670	1080	65	41-105
51-28-5	2,4-Dinitrophenol	1670	1670	100	10-140
534-52-1	4,6-Dinitro-o-cresol	1670	1580	95	37-122
95-48-7	2-Methylphenol	1670	1150	69	47-112
	3&4-Methylphenol	3330	2380	71	47-115
100-02-7	4-Nitrophenol	1670	1290	77	22-130
87-86-5	Pentachlorophenol	1670	1630	98	47-135
108-95-2	Phenol	1670	1150	69	44-115
95-95-4	2,4,5-Trichlorophenol	1670	1290	77	47-123
88-06-2	2,4,6-Trichlorophenol	1670	1260	76	52-117
83-32-9	Acenaphthene	1670	1210	73	50-115
208-96-8	Acenaphthylene	1670	1470	88	59-127
120-12-7	Anthracene	1670	1320	79	58-117
56-55-3	Benzo(a)anthracene	1670	1360	82	62-114
50-32-8	Benzo(a)pyrene	1670	1360	82	59-117
205-99-2	Benzo(b)fluoranthene	1670	1330	80	51-123
191-24-2	Benzo(g,h,i)perylene	1670	1410	85	35-141
207-08-9	Benzo(k)fluoranthene	1670	1230	74	53-130
101-55-3	4-Bromophenyl phenyl ether	1670	1320	79	60-118
85-68-7	Butyl benzyl phthalate	1670	1430	86	56-126
100-51-6	Benzyl Alcohol	1670	1160	70	48-112
91-58-7	2-Chloronaphthalene	1670	1300	78	52-119
106-47-8	4-Chloroaniline	1670	1090	65	12-110
86-74-8	Carbazole	1670	1440	86	44-151
218-01-9	Chrysene	1670	1350	81	63-112
111-91-1	bis(2-Chloroethoxy)methane	1670	1220	73	47-111
111-44-4	bis(2-Chloroethyl)ether	1670	1030	62	42-112
7005-72-3	4-Chlorophenyl phenyl ether	1670	1190	71	56-122
95-50-1	1,2-Dichlorobenzene	1670	1070	64	48-112
541-73-1	1,3-Dichlorobenzene	1670	1030	62	50-110
106-46-7	1,4-Dichlorobenzene	1670	1030	62	49-112
121-14-2	2,4-Dinitrotoluene	1670	1500	90	56-127

6.2

6

Blank Spike Summary

Page 2 of 3

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8602-BS	A24607.D	1	12/03/07	SC	12/03/07	OP8602	EA1532

The QC reported here applies to the following samples:

Method: SW846 8270C

T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
606-20-2	2,6-Dinitrotoluene	1670	1490	89	61-121
91-94-1	3,3'-Dichlorobenzidine	1670	1430	86	33-182
53-70-3	Dibenz(a,h)anthracene	1670	1500	90	40-139
132-64-9	Dibenzofuran	1670	1240	74	56-120
122-39-4	Diphenylamine	1670	1530	92	62-147
84-74-2	Di-n-butyl phthalate	1670	1420	85	60-120
117-84-0	Di-n-octyl phthalate	1670	1350	81	41-142
84-66-2	Diethyl phthalate	1670	1320	79	60-126
131-11-3	Dimethyl phthalate	1670	1250	75	61-121
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1560	94	55-130
206-44-0	Fluoranthene	1670	1410	85	56-123
86-73-7	Fluorene	1670	1240	74	54-118
118-74-1	Hexachlorobenzene	1670	1350	81	61-117
87-68-3	Hexachlorobutadiene	1670	1180	71	45-114
77-47-4	Hexachlorocyclopentadiene	1670	1160	70	11-136
67-72-1	Hexachloroethane	1670	1050	63	47-118
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1420	85	37-136
78-59-1	Isophorone	1670	1290	77	51-115
90-12-0	1-Methylnaphthalene	1670	1230	74	50-106
91-57-6	2-Methylnaphthalene	1670	1290	77	49-114
88-74-4	2-Nitroaniline	1670	1330	80	52-126
99-09-2	3-Nitroaniline	1670	1630	98	35-151
100-01-6	4-Nitroaniline	1670	2170	130	65-180
91-20-3	Naphthalene	1670	1210	73	49-111
98-95-3	Nitrobenzene	1670	1190	71	47-117
621-64-7	N-Nitroso-di-n-propylamine	1670	1260	76	44-119
86-30-6	N-Nitrosodiphenylamine	1670	1530	92	63-147
85-01-8	Phenanthrene	1670	1340	80	60-117
129-00-0	Pyrene	1670	1460	88	53-124
120-82-1	1,2,4-Trichlorobenzene	1670	1220	73	52-116

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	64%	26-124%
4165-62-2	Phenol-d5	75%	19-106%

6.2

6

Blank Spike Summary

Page 3 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8602-BS	A24607.D	1	12/03/07	SC	12/03/07	OP8602	EA1532

The QC reported here applies to the following samples:

Method: SW846 8270C

T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	89%	18-129%
4165-60-0	Nitrobenzene-d5	73%	18-104%
321-60-8	2-Fluorobiphenyl	69%	21-114%
1718-51-0	Terphenyl-d14	81%	24-149%

6.2



Blank Spike Summary

Page 1 of 2

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8628-BS	H24611.D	1	12/06/07	SC	12/05/07	OP8628	EH1384

The QC reported here applies to the following samples:

Method: SW846 8270C

T19891-10, T19891-13, T19891-19

6.2

6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	18.6	37	10-51
95-57-8	2-Chlorophenol	50	39.4	79	47-87
59-50-7	4-Chloro-3-methyl phenol	50	41.2	82	43-109
120-83-2	2,4-Dichlorophenol	50	38.9	78	42-106
105-67-9	2,4-Dimethylphenol	50	33.4	67	37-100
51-28-5	2,4-Dinitrophenol	50	41.9	84	23-113
534-52-1	4,6-Dinitro-o-cresol	50	44.2	88	30-115
95-48-7	2-Methylphenol	50	31.1	62	31-95
	3&4-Methylphenol	100	56.9	57	38-78
100-02-7	4-Nitrophenol	50	22.9	46	13-52
87-86-5	Pentachlorophenol	50	55.8	112	42-129
108-95-2	Phenol	50	19.2	38	10-53
95-95-4	2,4,5-Trichlorophenol	50	41.1	82	40-116
88-06-2	2,4,6-Trichlorophenol	50	40.2	80	43-113
83-32-9	Acenaphthene	50	38.3	77	41-110
208-96-8	Acenaphthylene	50	46.1	92	50-123
120-12-7	Anthracene	50	40.4	81	64-107
191-24-2	Benzo(g,h,i)perylene	50	29.3	59	31-139
101-55-3	4-Bromophenyl phenyl ether	50	42.4	85	52-115
85-68-7	Butyl benzyl phthalate	50	44.0	88	38-132
100-51-6	Benzyl Alcohol	50	34.7	69	20-97
91-58-7	2-Chloronaphthalene	50	39.5	79	40-115
106-47-8	4-Chloroaniline	50	38.0	76	26-131
86-74-8	Carbazole	50	39.9	80	39-155
218-01-9	Chrysene	50	45.6	91	55-112
111-91-1	bis(2-Chloroethoxy)methane	50	39.0	78	45-108
111-44-4	bis(2-Chloroethyl)ether	50	39.2	78	41-107
7005-72-3	4-Chlorophenyl phenyl ether	50	44.4	89	47-118
95-50-1	1,2-Dichlorobenzene	50	36.4	73	36-98
541-73-1	1,3-Dichlorobenzene	50	37.2	74	37-94
106-46-7	1,4-Dichlorobenzene	50	37.0	74	38-95
121-14-2	2,4-Dinitrotoluene	50	45.6	91	46-125
606-20-2	2,6-Dinitrotoluene	50	40.7	81	54-118
91-94-1	3,3'-Dichlorobenzidine	50	71.9	144	62-153
53-70-3	Dibenzo(a,h)anthracene	50	37.4	75	37-136
132-64-9	Dibenzofuran	50	39.7	79	41-122

Blank Spike Summary

Page 2 of 2

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8628-BS	H24611.D	1	12/06/07	SC	12/05/07	OP8628	EH1384

The QC reported here applies to the following samples:

Method: SW846 8270C

T19891-10, T19891-13, T19891-19

6.2

6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
122-39-4	Diphenylamine	50	49.9	100	50-157
84-74-2	Di-n-butyl phthalate	50	44.1	88	50-120
117-84-0	Di-n-octyl phthalate	50	50.9	102	36-132
84-66-2	Diethyl phthalate	50	43.2	86	49-120
131-11-3	Dimethyl phthalate	50	42.7	85	53-119
117-81-7	bis(2-Ethylhexyl)phthalate	50	57.6	115	50-128
206-44-0	Fluoranthene	50	45.3	91	48-119
86-73-7	Fluorene	50	42.0	84	44-116
118-74-1	Hexachlorobenzene	50	42.0	84	53-117
87-68-3	Hexachlorobutadiene	50	37.5	75	27-100
77-47-4	Hexachlorocyclopentadiene	50	58.8	118*	10-108
67-72-1	Hexachloroethane	50	35.9	72	35-96
193-39-5	Indeno(1,2,3-cd)pyrene	50	30.7	61	34-135
78-59-1	Isophorone	50	41.0	82	49-110
90-12-0	1-Methylnaphthalene	50	35.6	71	40-99
91-57-6	2-Methylnaphthalene	50	36.4	73	38-108
88-74-4	2-Nitroaniline	50	43.8	88	46-122
99-09-2	3-Nitroaniline	50	48.3	97	42-156
100-01-6	4-Nitroaniline	50	86.3	173	60-218
91-20-3	Naphthalene	50	35.6	71	41-100
98-95-3	Nitrobenzene	50	42.3	85	47-107
621-64-7	N-Nitroso-di-n-propylamine	50	46.2	92	43-115
86-30-6	N-Nitrosodiphenylamine	50	49.9	100	50-157
85-01-8	Phenanthrene	50	41.1	82	55-112
129-00-0	Pyrene	50	33.6	67	43-126
120-82-1	1,2,4-Trichlorobenzene	50	37.3	75	35-104

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	53%	10-66%
4165-62-2	Phenol-d5	35%	10-53%
118-79-6	2,4,6-Tribromophenol	88%	32-128%
4165-60-0	Nitrobenzene-d5	85%	29-115%
321-60-8	2-Fluorobiphenyl	74%	34-113%
1718-51-0	Terphenyl-d14	72%	12-145%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8602-MS ^a	A24618.D	1	12/03/07	SC	12/03/07	OP8602	EA1532
OP8602-MSD ^a	A24619.D	1	12/03/07	SC	12/03/07	OP8602	EA1532
T19891-5	A24617.D	1	12/03/07	SC	12/03/07	OP8602	EA1532

The QC reported here applies to the following samples:

Method: SW846 8270C

T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18

CAS No.	Compound	T19891-5 ug/kg	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	970 U	1890	ND	0*	ND	0*	nc	11-74/19
95-57-8	2-Chlorophenol	190 U	1890	1350	71	1370	72	1	33-109/27
59-50-7	4-Chloro-3-methyl phenol	190 U	1890	1800	95	1760	92	2	44-118/22
120-83-2	2,4-Dichlorophenol	190 U	1890	1610	85	1580	83	2	34-117/28
105-67-9	2,4-Dimethylphenol	190 U	1890	1490	79	1550	81	4	37-113/23
51-28-5	2,4-Dinitrophenol	970 U	1890	1430	75	1380	72	4	10-119/25
534-52-1	4,6-Dinitro-o-cresol	390 U	1890	1880	99	1890	99	1	38-103/26
95-48-7	2-Methylphenol	190 U	1890	1310	69	1380	72	5	38-109/26
	3&4-Methylphenol	190 U	3790	2860	75	2900	76	1	36-115/26
100-02-7	4-Nitrophenol	190 U	1890	1770	93	1810	95	2	12-142/27
87-86-5	Pentachlorophenol	970 U	1890	2000	106	2050	107	2	43-134/20
108-95-2	Phenol	190 U	1890	1410	74	1440	75	2	33-109/23
95-95-4	2,4,5-Trichlorophenol	190 U	1890	1580	83	1650	86	4	35-123/21
88-06-2	2,4,6-Trichlorophenol	190 U	1890	1550	82	1570	82	1	31-129/21
83-32-9	Acenaphthene	190 U	1890	1460	77	1590	83	9	39-113/21
208-96-8	Acenaphthylene	190 U	1890	1760	93	1820	95	3	45-125/23
120-12-7	Anthracene	190 U	1890	1710	90	1690	88	1	41-122/19
56-55-3	Benzo(a)anthracene	190 U	1890	1580	83	1610	84	2	48-114/18
50-32-8	Benzo(a)pyrene	190 U	1890	1640	87	1610	84	2	45-114/20
205-99-2	Benzo(b)fluoranthene	190 U	1890	1510	80	1460	76	3	42-116/23
191-24-2	Benzo(g,h,i)perylene	190 U	1890	3100	164*	2990	156*	4	22-131/35
207-08-9	Benzo(k)fluoranthene	190 U	1890	1510	80	1630	85	8	39-126/22
101-55-3	4-Bromophenyl phenyl ether	190 U	1890	1680	89	1700	89	1	38-127/19
85-68-7	Butyl benzyl phthalate	190 U	1890	2130	112	2170	113	2	32-147/24
100-51-6	Benzyl Alcohol	190 U	1890	1370	72	1430	75	4	36-111/26
91-58-7	2-Chloronaphthalene	190 U	1890	1580	83	1620	85	3	36-119/23
106-47-8	4-Chloroaniline	190 U	1890	1400	74	1420	74	1	14-114/27
86-74-8	Carbazole	190 U	1890	1780	94	1780	93	0	27-158/19
218-01-9	Chrysene	190 U	1890	1570	83	1680	88	7	47-113/19
111-91-1	bis(2-Chloroethoxy)methane	190 U	1890	1550	82	1520	79	2	35-109/25
111-44-4	bis(2-Chloroethyl)ether	190 U	1890	1320	70	1340	70	2	29-109/26
7005-72-3	4-Chlorophenyl phenyl ether	190 U	1890	1490	79	1550	81	4	41-123/21
95-50-1	1,2-Dichlorobenzene	190 U	1890	1400	74	1470	77	5	23-114/30
541-73-1	1,3-Dichlorobenzene	190 U	1890	1390	73	1320	69	5	21-112/27
106-46-7	1,4-Dichlorobenzene	190 U	1890	1360	72	1370	72	1	23-114/27
121-14-2	2,4-Dinitrotoluene	190 U	1890	1930	102	2020	106	5	42-134/25

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8602-MS ^a	A24618.D	1	12/03/07	SC	12/03/07	OP8602	EA1532
OP8602-MSD ^a	A24619.D	1	12/03/07	SC	12/03/07	OP8602	EA1532
T19891-5	A24617.D	1	12/03/07	SC	12/03/07	OP8602	EA1532

The QC reported here applies to the following samples:

Method: SW846 8270C

T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18

CAS No.	Compound	T19891-5 ug/kg	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
606-20-2	2,6-Dinitrotoluene	190 U	1890	1770	93	1960	102	10	49-119/21
91-94-1	3,3'-Dichlorobenzidine	390 U	1890	1300	69	1350	71	4	37-149/27
53-70-3	Dibenzo(a,h)anthracene	190 U	1890	2800	148*	2730	143*	3	23-135/28
132-64-9	Dibenzofuran	190 U	1890	1580	83	1580	83	0	39-126/19
122-39-4	Diphenylamine	190 U	1890	1880	99	2020	106	7	38-161/25
84-74-2	Di-n-butyl phthalate	190 U	1890	1780	94	1770	92	1	43-124/20
117-84-0	Di-n-octyl phthalate	190 U	1890	1810	96	1790	94	1	22-162/29
84-66-2	Diethyl phthalate	190 U	1890	1720	91	1730	90	1	44-129/21
131-11-3	Dimethyl phthalate	190 U	1890	1580	83	1630	85	3	48-122/16
117-81-7	bis(2-Ethylhexyl)phthalate	190 U	1890	2070	109	2150	112	4	41-138/24
206-44-0	Fluoranthene	190 U	1890	1550	82	1540	80	1	29-127/24
86-73-7	Fluorene	190 U	1890	1600	84	1620	85	1	39-122/22
118-74-1	Hexachlorobenzene	190 U	1890	1700	90	1750	91	3	46-119/24
87-68-3	Hexachlorobutadiene	190 U	1890	1590	84	1440	75	10	15-117/26
77-47-4	Hexachlorocyclopentadiene	190 U	1890	1650	87	1700	89	3	12-103/29
67-72-1	Hexachloroethane	190 U	1890	1400	74	1390	73	1	18-116/30
193-39-5	Indeno(1,2,3-cd)pyrene	190 U	1890	2700	142*	2660	139*	1	23-127/32
78-59-1	Isophorone	190 U	1890	1520	80	1470	77	3	36-116/24
90-12-0	1-Methylnaphthalene	190 U	1890	1480	78	1510	79	2	38-105/25
91-57-6	2-Methylnaphthalene	190 U	1890	1530	81	1540	80	1	37-113/26
88-74-4	2-Nitroaniline	190 U	1890	1680	89	1670	87	1	38-131/18
99-09-2	3-Nitroaniline	190 U	1890	1880	99	1940	101	3	30-144/23
100-01-6	4-Nitroaniline	190 U	1890	2680	141	2760	144	3	54-196/32
91-20-3	Naphthalene	190 U	1890	1510	80	1520	79	1	28-113/25
98-95-3	Nitrobenzene	190 U	1890	1540	81	1570	82	2	32-113/26
621-64-7	N-Nitroso-di-n-propylamine	190 U	1890	1530	81	1460	76	5	34-118/24
86-30-6	N-Nitrosodiphenylamine	190 U	1890	1880	99	2020	106	7	40-157/24
85-01-8	Phenanthrene	190 U	1890	1730	91	1770	92	2	40-121/19
129-00-0	Pyrene	190 U	1890	2550	135	2600	136	2	32-144/24
120-82-1	1,2,4-Trichlorobenzene	190 U	1890	1550	82	1550	81	0	25-120/26

CAS No.	Surrogate Recoveries	MS	MSD	T19891-5	Limits
367-12-4	2-Fluorophenol	69%	66%	63%	26-124%
4165-62-2	Phenol-d5	75%	76%	73%	19-106%

69



Matrix Spike/Matrix Spike Duplicate Summary

Page 3 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8602-MS ^a	A24618.D	1	12/03/07	SC	12/03/07	OP8602	EA1532
OP8602-MSD ^a	A24619.D	1	12/03/07	SC	12/03/07	OP8602	EA1532
T19891-5	A24617.D	1	12/03/07	SC	12/03/07	OP8602	EA1532

The QC reported here applies to the following samples:

Method: SW846 8270C

T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18

CAS No.	Surrogate Recoveries	MS	MSD	T19891-5	Limits
118-79-6	2,4,6-Tribromophenol	92%	91%	94%	18-129%
4165-60-0	Nitrobenzene-d5	77%	77%	80%	18-104%
321-60-8	2-Fluorobiphenyl	66%	69%	72%	21-114%
1718-51-0	Terphenyl-d14	115%	114%	95%	24-149%

(a) COMPOUNDS OUTSIDE CONTROL LIMITS DUE TO MATRIX INTERFERENCE.

69

69

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8628-MS	H24621.D	1	12/06/07	SC	12/05/07	OP8628	EH1384
OP8628-MSD	H24622.D	1	12/06/07	SC	12/05/07	OP8628	EH1384
T19927-10	H24615.D	1	12/06/07	SC	12/05/07	OP8628	EH1384

The QC reported here applies to the following samples:

Method: SW846 8270C

T19891-10, T19891-13, T19891-19

CAS No.	Compound	T19927-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	10 U	100	42.7	43	44.9	45	5	11-85/27	
95-57-8	2-Chlorophenol	5.0 U	100	63.1	63	62.0	62	2	36-100/16	
59-50-7	4-Chloro-3-methyl phenol	5.0 U	100	68.3	68	68.2	68	0	41-122/24	
120-83-2	2,4-Dichlorophenol	5.0 U	100	62.6	63	60.4	60	4	39-113/25	
105-67-9	2,4-Dimethylphenol	5.0 U	100	58.9	59	57.9	58	2	35-110/26	
51-28-5	2,4-Dinitrophenol	25 U	100	85.1	85	85.9	86	1	30-131/44	
534-52-1	4,6-Dinitro-o-cresol	10 U	100	99.0	99	101	101	2	29-126/24	
95-48-7	2-Methylphenol	5.0 U	100	57.2	57	56.3	56	2	31-105/31	
	3&4-Methylphenol	5.0 U	200	110	55	105	53	5	31-106/25	
100-02-7	4-Nitrophenol	25 U	100	65.8	66	69.7	70	6	21-71/25	
87-86-5	Pentachlorophenol	25 U	100	115	115	125	125	8	52-144/18	
108-95-2	Phenol	5.0 U	100	42.9	43	42.7	43	0	17-75/35	
95-95-4	2,4,5-Trichlorophenol	5.0 U	100	70.6	71	68.2	68	3	40-121/22	
88-06-2	2,4,6-Trichlorophenol	5.0 U	100	65.7	66	63.1	63	4	42-119/22	
83-32-9	Acenaphthene	5.0 U	100	63.3	63	62.5	63	1	35-115/21	
208-96-8	Acenaphthylene	5.0 U	100	78.3	78	76.0	76	3	43-128/23	
120-12-7	Anthracene	5.0 U	100	80.5	81	78.4	78	3	40-126/18	
191-24-2	Benzo(g,h,i)perylene	5.0 U	100	88.4	88	111	111	23	24-135/36	
101-55-3	4-Bromophenyl phenyl ether	5.0 U	100	77.3	77	77.6	78	0	40-125/20	
85-68-7	Butyl benzyl phthalate	5.0 U	100	100	100	96.8	97	3	40-128/25	
100-51-6	Benzyl Alcohol	5.0 U	100	60.5	61	59.3	59	2	26-110/32	
91-58-7	2-Chloronaphthalene	5.0 U	100	66.8	67	64.8	65	3	33-123/27	
106-47-8	4-Chloroaniline	5.0 U	100	64.4	64	58.9	59	9	10-119/29	
86-74-8	Carbazole	5.0 U	100	84.1	84	81.6	82	3	36-155/19	
218-01-9	Chrysene	5.0 U	100	97.3	97	97.5	98	0	46-118/19	
111-91-1	bis(2-Chloroethoxy)methane	5.0 U	100	63.3	63	60.8	61	4	36-112/30	
111-44-4	bis(2-Chloroethyl)ether	5.0 U	100	62.3	62	59.2	59	5	34-110/33	
7005-72-3	4-Chlorophenyl phenyl ether	5.0 U	100	70.7	71	68.0	68	4	44-124/21	
95-50-1	1,2-Dichlorobenzene	5.0 U	100	58.3	58	55.4	55	5	29-108/29	
541-73-1	1,3-Dichlorobenzene	5.0 U	100	58.5	59	55.7	56	5	31-100/32	
106-46-7	1,4-Dichlorobenzene	5.0 U	100	60.4	60	56.6	57	6	30-104/36	
121-14-2	2,4-Dinitrotoluene	5.0 U	100	90.1	90	87.7	88	3	41-128/23	
606-20-2	2,6-Dinitrotoluene	5.0 U	100	77.1	77	74.2	74	4	48-124/23	
91-94-1	3,3'-Dichlorobenzidine	10 U	100	53.8	54	60.1	60	11	33-142/21	
53-70-3	Dibenzo(a,h)anthracene	5.0 U	100	97.2	97	109	109	11	28-135/37	
132-64-9	Dibenzofuran	5.0 U	100	63.9	64	62.5	63	2	39-123/20	

69

6

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8628-MS	H24621.D	1	12/06/07	SC	12/05/07	OP8628	EH1384
OP8628-MSD	H24622.D	1	12/06/07	SC	12/05/07	OP8628	EH1384
T19927-10	H24615.D	1	12/06/07	SC	12/05/07	OP8628	EH1384

The QC reported here applies to the following samples:

Method: SW846 8270C

T19891-10, T19891-13, T19891-19

CAS No.	Compound	T19927-10 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
122-39-4	Diphenylamine	5.0 U	100	104	104	102	102	2	35-163/27
84-74-2	Di-n-butyl phthalate	5.0 U	100	85.9	86	80.3	80	7	36-131/16
117-84-0	Di-n-octyl phthalate	5.0 U	100	101	101	92.1	92	9	35-140/25
84-66-2	Diethyl phthalate	5.0 U	100	84.2	84	80.6	81	4	46-129/20
131-11-3	Dimethyl phthalate	5.0 U	100	78.1	78	77.0	77	1	51-121/19
117-81-7	bis(2-Ethylhexyl)phthalate	5.0 U	100	107	107	99.5	100	7	46-135/19
206-44-0	Fluoranthene	5.0 U	100	80.4	80	78.0	78	3	42-124/24
86-73-7	Fluorene	5.0 U	100	66.5	67	66.1	66	1	35-123/22
118-74-1	Hexachlorobenzene	5.0 U	100	79.5	80	79.5	80	0	42-128/21
87-68-3	Hexachlorobutadiene	5.0 U	100	56.8	57	56.4	56	1	26-102/28
77-47-4	Hexachlorocyclopentadiene	5.0 U	100	90.5	91	97.2	97	7	20-107/34
67-72-1	Hexachloroethane	5.0 U	100	55.1	55	54.8	55	1	27-107/30
193-39-5	Indeno(1,2,3-cd)pyrene	5.0 U	100	78.4	78	90.9	91	15	28-133/30
78-59-1	Isophorone	5.0 U	100	64.6	65	64.1	64	1	42-112/28
90-12-0	1-Methylnaphthalene	5.0 U	100	56.9	57	55.5	56	2	35-107/25
91-57-6	2-Methylnaphthalene	5.0 U	100	58.9	59	57.9	58	2	32-118/29
88-74-4	2-Nitroaniline	5.0 U	100	78.1	78	76.3	76	2	42-122/22
99-09-2	3-Nitroaniline	5.0 U	100	93.9	94	93.8	94	0	28-145/23
100-01-6	4-Nitroaniline	5.0 U	100	191	191	180	180	6	32-209/24
91-20-3	Naphthalene	5.0 U	100	58.6	59	56.5	57	4	36-105/24
98-95-3	Nitrobenzene	5.0 U	100	65.7	66	66.2	66	1	37-115/26
621-64-7	N-Nitroso-di-n-propylamine	5.0 U	100	70.9	71	69.7	70	2	34-122/27
86-30-6	N-Nitrosodiphenylamine	5.0 U	100	104	104	102	102	2	33-165/27
85-01-8	Phenanthrene	5.0 U	100	81.2	81	78.4	78	4	49-119/19
129-00-0	Pyrene	5.0 U	100	88.3	88	99.6	100	12	39-128/25
120-82-1	1,2,4-Trichlorobenzene	5.0 U	100	60.1	60	57.9	58	4	30-112/23
98-85-1	1-Phenylethanol	5.0 U		ND		ND		nc	50-150/30 ^a
931-17-9	1,2-Cyclohexanediol	5.0 U		ND		ND		nc	50-150/30 ^a
	1,3&1,4-Cyclohexanediol	5.0 U		ND		ND		nc	50-150/30 ^a

CAS No.	Surrogate Recoveries	MS	MSD	T19927-10	Limits
367-12-4	2-Fluorophenol	53%	50%	32%	10-66%
4165-62-2	Phenol-d5	45%	44%	24%	10-53%
118-79-6	2,4,6-Tribromophenol	89%	91%	90%	32-128%

Matrix Spike/Matrix Spike Duplicate Summary

Page 3 of 3

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8628-MS	H24621.D	1	12/06/07	SC	12/05/07	OP8628	EH1384
OP8628-MSD	H24622.D	1	12/06/07	SC	12/05/07	OP8628	EH1384
T19927-10	H24615.D	1	12/06/07	SC	12/05/07	OP8628	EH1384

The QC reported here applies to the following samples:

Method: SW846 8270C

T19891-10, T19891-13, T19891-19

6
6

CAS No.	Surrogate Recoveries	MS	MSD	T19927-10	Limits
4165-60-0	Nitrobenzene-d5	64%	64%	54%	29-115%
321-60-8	2-Fluorobiphenyl	64%	61%	56%	34-113%
1718-51-0	Terphenyl-d14	91%	100%	92%	12-145%

(a) Advisory control limits.



IT'S ALL IN THE CHEMISTRY

GC Semi-volatiles

QC Data Summaries

7

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8594-MB	DD69621.D	1	12/03/07	FO	12/10/07	OP8594	GDD1354

The QC reported here applies to the following samples:

Method: SW846 8151

T19891-11, T19891-12

7.1

7

CAS No.	Compound	Result	RL	MDL	Units	Q
94-75-7	2,4-D	ND	33	13	ug/kg	
93-72-1	2,4,5-TP (Silvex)	ND	13	12	ug/kg	
93-76-5	2,4,5-T	ND	6.7	3.3	ug/kg	
1918-00-9	Dicamba	ND	6.7	5.0	ug/kg	
88-85-7	Dinoseb	ND	6.7	4.3	ug/kg	
75-99-0	Dalapon	ND	33	23	ug/kg	
120-36-5	Dichloroprop	ND	33	9.0	ug/kg	
94-82-6	2,4-DB	ND	67	54	ug/kg	
93-65-2	MCPP	ND	170		ug/kg	
94-74-6	MCPA	ND	170		ug/kg	
87-86-5	Pentachlorophenol	ND	1.7	1.0	ug/kg	

CAS No. Surrogate Recoveries Limits

19719-28-9 2,4-DCAA 40% 34-179%

Method Blank Summary

Page 1 of 1

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8595-MB	GG39054.D	1	12/05/07	FO	12/01/07	OP8595	GGG1208

The QC reported here applies to the following samples:

Method: SW846 8081A

T19891-11, T19891-12

7.1

7

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	1.7	0.40	ug/kg	
319-84-6	alpha-BHC	ND	1.7	0.37	ug/kg	
319-85-7	beta-BHC	ND	1.7	0.53	ug/kg	
319-86-8	delta-BHC	ND	1.7	0.53	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.7	0.73	ug/kg	
5103-71-9	alpha-Chlordane	ND	1.7	0.33	ug/kg	
5103-74-2	gamma-Chlordane	ND	1.7	0.33	ug/kg	
60-57-1	Dieldrin	ND	3.3	0.90	ug/kg	
72-54-8	4,4'-DDD	ND	3.3	0.97	ug/kg	
72-55-9	4,4'-DDE	ND	3.3	1.3	ug/kg	
50-29-3	4,4'-DDT	ND	3.3	1.5	ug/kg	
72-20-8	Endrin	ND	3.3	1.1	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.3	0.97	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.3	1.4	ug/kg	
53494-70-5	Endrin ketone	ND	3.3	0.90	ug/kg	
959-98-8	Endosulfan-I	ND	3.3	0.47	ug/kg	
33213-65-9	Endosulfan-II	ND	3.3	0.83	ug/kg	
76-44-8	Heptachlor	ND	1.7	0.47	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.7	0.33	ug/kg	
72-43-5	Methoxychlor	ND	17	7.3	ug/kg	
8001-35-2	Toxaphene	ND	17	12	ug/kg	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	73% - 156%
2051-24-3	Decachlorobiphenyl	77% - 149%

Method Blank Summary

Page 1 of 1

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8596-MB	DD69750.D	1	12/06/07	FO	12/01/07	OP8596	GDD1357

The QC reported here applies to the following samples:

Method: SW846 8082

T19891-11, T19891-12

7.1

7

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	17	11	ug/kg	
11104-28-2	Aroclor 1221	ND	17	17	ug/kg	
11141-16-5	Aroclor 1232	ND	17	9.7	ug/kg	
53469-21-9	Aroclor 1242	ND	17	14	ug/kg	
12672-29-6	Aroclor 1248	ND	17	13	ug/kg	
11097-69-1	Aroclor 1254	ND	17	14	ug/kg	
11096-82-5	Aroclor 1260	ND	17	7.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	100% 28-148%
2051-24-3	Decachlorobiphenyl	96% 23-156%

Blank Spike Summary

Page 1 of 1

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8594-BS	DD69622.D	1	12/03/07	FO	12/10/07	OP8594	GDD1354

The QC reported here applies to the following samples:

Method: SW846 8151

T19891-11, T19891-12

7.2

7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
94-75-7	2,4-D	66.6	54.2	81	51-137
93-72-1	2,4,5-TP (Silvex)	13.3	ND	88	46-136
93-76-5	2,4,5-T	13.3	9.7	73	37-143
1918-00-9	Dicamba	13.3	8.1	61	30-144
88-85-7	Dinoseb	13.3	ND	15	10-36
75-99-0	Dalapon	66.6	76.3	115* a	21-110
120-36-5	Dichloroprop	66.6	52.4	79	56-131
94-82-6	2,4-DB	133	111	83	47-149
93-65-2	MCPP		ND		50-150 b
94-74-6	MCPA		ND		50-150 b
87-86-5	Pentachlorophenol	3.33	1.7	51	13-122

CAS No.	Surrogate Recoveries	BSP	Limits
19719-28-9	2,4-DCAA	76%	34-179%

(a) Outside control limits biased high. Since there were no detects for this compounds in the associated samples, the data is acceptable.

(b) Advisory control limits.

Blank Spike Summary

Page 1 of 1

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8595-BS	GG39055.D	1	12/05/07	FO	12/01/07	OP8595	GGG1208

The QC reported here applies to the following samples:

Method: SW846 8081A

T19891-11, T19891-12

7.2

7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	8.33	9.1	109	44-138
319-84-6	alpha-BHC	8.33	10.5	126	61-146
319-85-7	beta-BHC	8.33	9.9	119	58-150
319-86-8	delta-BHC	8.33	11.4	137	52-153
58-89-9	gamma-BHC (Lindane)	8.33	9.7	116	57-134
5103-71-9	alpha-Chlordane	8.33	9.2	110	57-136
5103-74-2	gamma-Chlordane	8.33	8.6	103	56-132
60-57-1	Dieldrin	16.7	19.2	115	72-133
72-54-8	4,4'-DDD	16.7	21.6	130	75-137
72-55-9	4,4'-DDE	16.7	21.2	127	65-147
50-29-3	4,4'-DDT	16.7	19.7	118	58-147
72-20-8	Endrin	16.7	23.6	142	66-159
1031-07-8	Endosulfan sulfate	16.7	20.4	122	60-132
7421-93-4	Endrin aldehyde	16.7	16.9	101	50-116
53494-70-5	Endrin ketone	16.7	17.7	106	58-138
959-98-8	Endosulfan-I	8.33	9.7	116	55-145
33213-65-9	Endosulfan-II	16.7	20.1	121	64-138
76-44-8	Heptachlor	8.33	9.5	114	62-141
1024-57-3	Heptachlor epoxide	8.33	8.9	107	58-138
72-43-5	Methoxychlor	83.3	95.5	115	65-140
8001-35-2	Toxaphene	167	ND	0*	50-150 ^a

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	98%	26-156%
2051-24-3	Decachlorobiphenyl	99%	14-149%

(a) Advisory control limits.

Blank Spike Summary

Page 1 of 1

Job Number: T19891
Account: KLETXAU KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8596-BS	DD69751.D	1	12/06/07	FO	12/01/07	OP8596	GDD1357

The QC reported here applies to the following samples:

Method: SW846 8082

T19891-11, T19891-12

7.2

7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	66.6	80.8	121	55-153
11096-82-5	Aroclor 1260	66.6	81.8	123	54-162

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	101%	28-148%
2051-24-3	Decachlorobiphenyl	89%	23-156%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8594-MS	DD69639.D	1	12/04/07	FO	12/10/07	OP8594	GDD1354
OP8594-MSD	DD69640.D	1	12/04/07	FO	12/10/07	OP8594	GDD1354
T19860-4	DD69632.D	1	12/03/07	FO	11/30/07	OP8594	GDD1354

The QC reported here applies to the following samples:

Method: SW846 8151

T19891-11, T19891-12

7.3

7

CAS No.	Compound	T19860-4 ug/kg	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
94-75-7	2,4-D	38 U	76	52.4	69	37.0	49	34*	28-130/28
93-72-1	2,4,5-TP (Silvex)	15 U	15.2	ND	0*	ND	0*	nc	25-120/29
93-76-5	2,4,5-T	7.5 U	15.2	12.0	79	9.3	61	25	22-131/32
1918-00-9	Dicamba	7.5 U	15.2	10.1	66	9.5	63	6	22-147/33
88-85-7	Dinoseb	7.5 U	15.2	7.3	48	5.8	38	23	10-51/34
75-99-0	Dalapon	38 U	76	62.6	82	73.5	97	16	20-112/33
120-36-5	Dichloroprop	38 U	76	50.9	67	40.6	53	23	35-124/34
94-82-6	2,4-DB	75 U	152	111	73	128	84	14	30-152/22
87-86-5	Pentachlorophenol	1.9 U	3.8	2.0	53	1.8	47	11	15-102/32

CAS No.	Surrogate Recoveries	MS	MSD	T19860-4	Limits
19719-28-9	2,4-DCAA	70%	40%	41%	34-179%
19719-28-9	2,4-DCAA	52%	34%		34-179%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8595-MS	GG39130.D	1	12/06/07	FO	12/01/07	OP8595	GGG1210
OP8595-MSD	GG39131.D	1	12/06/07	FO	12/01/07	OP8595	GGG1210
T19861-4	GG39060.D	1	12/05/07	FO	12/01/07	OP8595	GGG1208

The QC reported here applies to the following samples:

Method: SW846 8081A

T19891-11, T19891-12

7.3

7

CAS No.	Compound	T19861-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	2.1	U	10.4	11.2	108	10.9	103	3	33-136/26
319-84-6	alpha-BHC	2.1	U	10.4	13.3	128	12.8	121	4	40-144/26
319-85-7	beta-BHC	2.1	U	10.4	12.8	123	13.2	125	3	43-144/26
319-86-8	delta-BHC	2.1	U	10.4	15.6	150*	14.2	134	9	55-143/28
58-89-9	gamma-BHC (Lindane)	2.1	U	10.4	12.6	121	12.3	116	2	45-131/31
5103-71-9	alpha-Chlordane	2.1	U	10.4	12.7	122	11.7	110	8	48-135/28
5103-74-2	gamma-Chlordane	2.1	U	10.4	13.4	129	12.4	117	8	47-135/31
60-57-1	Dieldrin	4.2	U	20.8	27.3	131*	24.5	116	11	65-127/27
72-54-8	4,4'-DDD	4.2	U	20.8	32.4	156*	29.4	139*	10	56-137/27
72-55-9	4,4'-DDE	4.2	U	20.8	30.4	146*	27.6	130	10	62-139/25
50-29-3	4,4'-DDT	4.2	U	20.8	27.4	132	25.1	118	9	47-138/25
72-20-8	Endrin	4.2	U	20.8	33.6	161*	30.7	145	9	70-147/28
1031-07-8	Endosulfan sulfate	4.2	U	20.8	29.6	142*	30.0	141*	1	54-128/26
7421-93-4	Endrin aldehyde	4.2	U	20.8	25.2	121	23.1	109	9	32-127/27
53494-70-5	Endrin ketone	4.2	U	20.8	25.9	124	23.5	111	10	49-137/24
959-98-8	Endosulfan-I	4.2	U	10.4	13.2	127	12.0	113	10	54-132/26
33213-65-9	Endosulfan-II	4.2	U	20.8	27.6	133	25.1	118	9	34-147/29
76-44-8	Heptachlor	2.1	U	10.4	12.6	121	11.7	110	7	32-145/27
1024-57-3	Heptachlor epoxide	2.1	U	10.4	12.0	115	11.3	107	6	45-134/29
72-43-5	Methoxychlor	21	U	104	140	134	129	122	8	40-153/25

CAS No.	Surrogate Recoveries	MS	MSD	T19861-4	Limits
877-09-8	Tetrachloro-m-xylene	104%	97%	89%	26-156%
2051-24-3	Decachlorobiphenyl	110%	100%	93%	14-149%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: T19891

Account: KLETXAU KLEINFELDER

Project: Falcon Refinery Superfund Site/Ingleside, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP8596-MS ^a	DD69762.D	1	12/07/07	FO	12/01/07	OP8596	GDD1357
OP8596-MSD ^a	DD69763.D	1	12/07/07	FO	12/01/07	OP8596	GDD1357
T19861-4	DD69754.D	1	12/07/07	FO	12/01/07	OP8596	GDD1357

The QC reported here applies to the following samples:

Method: SW846 8082

T19891-11, T19891-12

CAS No.	Compound	T19861-4 ug/kg	Spike Q	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	21 U	85	179	211*	185	221*	3	40-177/30
11096-82-5	Aroclor 1260	21 U	85	86.0	101	90.5	108	5	42-165/31

CAS No.	Surrogate Recoveries	MS	MSD	T19861-4	Limits
877-09-8	Tetrachloro-m-xylene	74%	91%	91%	28-148%
2051-24-3	Decachlorobiphenyl	99%	103%	102%	23-156%

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

7.3

7



Metals Analysis

QC Data Summaries

8

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6962
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

12/02/07

Metal	RL	IDL	MB raw	final
Aluminum	10	2.6	2.2	<10
Antimony	0.50	.09	0.0	<0.50
Arsenic	0.50	.07	-0.025	<0.50
Barium	10	.005	0.0025	<10
Beryllium	0.25	.003	-0.026	<0.25
Boron	5.0	.07		
Cadmium	0.25	.025		
Calcium	250	.4	-2.9	<250
Chromium	0.50	.045	-0.042	<0.50
Cobalt	2.5	.05	0.011	<2.5
Copper	1.3	.071	-0.080	<1.3
Iron	5.0	.8	-0.33	<5.0
Lead	0.50	.035	0.047	<0.50
Magnesium	250	.4	0.059	<250
Manganese	0.75	.01	0.081	<0.75
Molybdenum	0.50	.023		
Nickel	2.0	.05		
Potassium	250	4	-8.4	<250
Selenium	0.50	.085	0.095	<0.50
Silver	0.50	.025	-0.016	<0.50
Sodium	250	8.1	-3.1	<250
Strontium	1.0	.025		
Thallium	1.0	.075	-0.025	<1.0
Tin	1.0	.075		
Titanium	1.0	.025		
Vanadium	2.5	.02	0.024	<2.5
Zinc	1.0	.04	0.074	<1.0

Associated samples MP6962: T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6962
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 12/02/07 12/02/07

Metal	T19891-5 Original DUP		RPD	QC Limits	T19891-5 Original MS		Spikelot MPTW3	% Rec	QC Limits
Aluminum	1960	2130	8.3	0-20	1960	7510	5380	103.1	75-125
Antimony	0.0	0.0	NC	0-20	0.0	22.0	43.1	51.1N(c)	75-125
Arsenic	0.74	0.93	22.8 (a)	0-20	0.74	41.4	43.1	94.4	75-125
Barium	39.1	44.7	13.4	0-20	39.1	84.6	43.1	105.6	75-125
Beryllium	0.023	0.022	4.4	0-20	0.023	39.1	43.1	90.7	75-125
Boron									
Cadmium									
Calcium	12600	13100	3.9	0-20	12600	18400	5380	107.7	75-125
Chromium	4.1	3.5	15.8	0-20	4.1	44.1	43.1	92.9	75-125
Cobalt	0.39	0.40	2.5	0-20	0.39	38.9	43.1	89.4	75-125
Copper	1.3	1.0	26.1 (a)	0-20	1.3	43.6	43.1	98.2	75-125
Iron	1280	1400	9.0	0-20	1280	6260	5380	92.5	75-125
Lead	2.5	2.5	0.0	0-20	2.5	41.3	43.1	90.1	75-125
Magnesium	1840	1710	7.3	0-20	1840	7030	5380	96.4	75-125
Manganese	75.0	79.8	6.2	0-20	75.0	133	43.1	134.7N(c)	75-125
Molybdenum									
Nickel									
Potassium	404	423	4.6	0-20	404	6300	5380	109.5	75-125
Selenium	0.0	0.28	200.0(a)	0-20	0.0	40.5	43.1	94.0	75-125
Silver	0.0	0.0	NC	0-20	0.0	41.8	43.1	97.0	75-125
Sodium	292	277	5.3	0-20	292	5650	5380	99.5	75-125
Strontium									
Thallium	0.0	0.0	NC	0-20	0.0	38.8	43.1	90.1	75-125
Tin									
Titanium									
Vanadium	2.3	2.6	12.2	0-20	2.3	42.4	43.1	93.1	75-125
Zinc	7.4	5.0	38.7*(b)	0-20	7.4	48.7	43.1	95.9	75-125

Associated samples MP6962: T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

(b) High RPD due to possible sample nonhomogeneity.

(c) Spike recovery indicates possible matrix interference.

8.1.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6962
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date:

12/02/07

Metal	T19891-5 Original	MSD	Spikelot MPTW3	% Rec	MSD RPD	QC Limit
Aluminum	1960	7650	5730	99.3	1.8	
Antimony	0.0	22.1	45.8	48.2N(a)	0.5	
Arsenic	0.74	40.5	45.8	86.7	2.2	
Barium	39.1	78.0	45.8	84.8	8.1	
Beryllium	0.023	38.3	45.8	83.5	2.1	
Boron						
Cadmium						
Calcium	12600	16000	5730	59.3N(a)	14.0	
Chromium	4.1	42.0	45.8	82.7	4.9	
Cobalt	0.39	38.1	45.8	82.3	2.1	
Copper	1.3	42.8	45.8	90.5	1.9	
Iron	1280	6210	5730	86.0	0.8	
Lead	2.5	41.2	45.8	84.4	0.2	
Magnesium	1840	6740	5730	85.5	4.2	
Manganese	75.0	126	45.8	111.2	5.4	
Molybdenum						
Nickel						
Potassium	404	6190	5730	101.0	1.8	
Selenium	0.0	39.7	45.8	86.6	2.0	
Silver	0.0	40.7	45.8	88.8	2.7	
Sodium	292	5530	5730	91.4	2.1	
Strontium						
Thallium	0.0	38.1	45.8	83.1	1.8	
Tin						
Titanium						
Vanadium	2.3	41.8	45.8	86.2	1.4	
Zinc	7.4	48.1	45.8	88.8	1.2	

Associated samples MP6962: T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference.

8.1.2
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6962
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date:

12/02/07

Metal	LCS Result	Spikelot MPLCD049	% Rec	QC Limits
Aluminum	8200	7730	106.1	58-142
Antimony	21.2	60.6	35.0	17-223
Arsenic	217	257	84.4	80-120
Barium	425	472	90.0	82-118
Beryllium	73.7	88.4	83.4	82-118
Boron				
Cadmium				
Calcium	3120	3640	85.7	79-121
Chromium	60.0	72.8	82.4	79-121
Cobalt	67.9	82.5	82.3	82-118
Copper	87.6	100	87.6	83-118
Iron	11700	14500	80.7	51-149
Lead	136	166	81.9	81-119
Magnesium	2540	3000	84.7	77-123
Manganese	312	374	83.4	80-120
Molybdenum				
Nickel				
Potassium	2410	2410	100.0	71-129
Selenium	153	173	88.4	76-124
Silver	112	123	91.1	61-139
Sodium	453	574	78.9	56-144
Strontium				
Thallium	166	194	85.6	76-124
Tin				
Titanium				
Vanadium	117	138	84.8	75-125
Zinc	174	201	86.6	79-120

Associated samples MP6962: T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

8.1.3

8

SERIAL DILUTION RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6962
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date:

12/02/07

Metal	T19891-5 Original	SDL 1:5	RPD	QC Limits
Aluminum	17300	18200	4.8	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	6.59	0.00	100.0(a)	0-10
Barium	346	355	2.5	0-10
Beryllium	0.200	0.00	100.0(a)	0-10
Boron				
Cadmium				
Calcium	111000	114000	2.0	0-10
Chromium	36.7	35.1	4.3	0-10
Cobalt	3.43	0.00	100.0(a)	0-10
Copper	11.1	0.00	100.0(a)	0-10
Iron	11400	11900	4.2	0-10
Lead	22.5	28.4	26.2 (a)	0-10
Magnesium	16400	17100	4.6	0-10
Manganese	665	691	3.9	0-10
Molybdenum				
Nickel				
Potassium	3580	2340	34.6 (a)	0-10
Selenium	0.00	10.7		0-10
Silver	0.00	0.00	NC	0-10
Sodium	2590	2220	14.0 (a)	0-10
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	20.5	22.9	11.6*(b)	0-10
Zinc	65.2	68.0	4.3	0-10

Associated samples MP6962: T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6970
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

12/04/07

Metal	RL	IDL	MB raw	final
Aluminum	10	2.6	-3.6	<10
Antimony	0.50	.09	-0.015	<0.50
Arsenic	0.50	.07	-0.049	<0.50
Barium	10	.005	-0.00050	<10
Beryllium	0.25	.003	-0.017	<0.25
Boron	5.0	.07		
Cadmium	0.25	.025	0.00050	<0.25
Calcium	250	.4	-7.1	<250
Chromium	0.50	.045	-0.032	<0.50
Cobalt	2.5	.05	0.0020	<2.5
Copper	1.3	.071	0.049	<1.3
Iron	5.0	.8		
Lead	0.50	.035	0.085	<0.50
Magnesium	250	.4	-0.24	<250
Manganese	0.75	.01	0.014	<0.75
Molybdenum	0.50	.023		
Nickel	2.0	.05	-0.028	<2.0
Potassium	250	4	0.34	<250
Selenium	0.50	.085	0.013	<0.50
Silver	0.50	.025	0.019	<0.50
Sodium	250	8.1	5.0	<250
Strontium	1.0	.025		
Thallium	1.0	.075	-0.052	<1.0
Tin	1.0	.075		
Titanium	1.0	.025		
Vanadium	2.5	.02	-0.0060	<2.5
Zinc	1.0	.04	0.017	<1.0

Associated samples MP6970: T19891-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits
(anr) Analyte not requested

8.2.1
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6970
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 12/04/07 12/04/07

Metal	T19907-1 Original DUP		RPD	QC Limits	T19907-1 Original MS		Spikelot MPTW3	% Rec	QC Limits
Aluminum	11600	10000	14.8	0-20	11600	13800	4940	44.6N(c)	75-125
Antimony	15.1	28.1	30.8*(a)	0-20	15.1	76.6	39.5	155.8N(c)	75-125
Arsenic	9.9	15.0	41.0*(a)	0-20	9.9	43.7	39.5	85.6	75-125
Barium	586	623	6.1	0-20	586	617	39.5	78.5	75-125
Beryllium	0.17	0.14	19.4	0-20	0.17	34.0	39.5	85.7	75-125
Boron									
Cadmium	4.8	5.1	6.1	0-20	4.8	37.9	39.5	83.8	75-125
Calcium	136000	131000	3.7	0-20	136000	133000	4940	-60.8(d)	75-125
Chromium	639	198	105.4*(a)	0-20	639	185	39.5	-1149.9d	75-125
Cobalt	9.2	10.1	9.3	0-20	9.2	40.6	39.5	79.5	75-125
Copper	3840	11100	97.2*(a)	0-20	3840	4070	39.5	582.6(d)	75-125
Iron	anr								
Lead	852	1460	52.6*(a)	0-20	852	6950	39.5	15445.5d	75-125
Magnesium	6410	7170	11.2	0-20	6410	9720	4940	67.1N(c)	75-125
Manganese	705	753	6.6	0-20	705	580	39.5	-316.6(d)	75-125
Molybdenum									
Nickel	406	281	36.4*(a)	0-20	406	256	39.5	-379.9(d)	75-125
Potassium	1100	1060	3.7	0-20	1100	6460	4940	108.6	75-125
Selenium	0.0	0.0 (a)	NC	0-20	0.0	32.0	39.5	81.1	75-125
Silver	50.9	13.6	116.2*(a)	0-20	50.9	51.6	39.5	0.8N (c)	75-125
Sodium	730	864	16.8	0-20	730	5830	4940	103.3	75-125
Strontium									
Thallium	0.0	0.30	200.0(b)	0-20	0.0	30.5	39.5	77.3	75-125
Tin									
Titanium									
Vanadium	16.0	16.4	2.5	0-20	16.0	49.8	39.5	85.6	75-125
Zinc	1040	1500	36.2*(a)	0-20	1040	886	39.5	-390.1(d)	75-125

Associated samples MP6970: T19891-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) High RPD due to possible sample nonhomogeneity.

(b) RPD acceptable due to low duplicate and sample concentrations.

(c) Spike recovery indicates possible matrix interference.

(d) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

8.2.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6970
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date:

12/04/07

Metal	T19907-1 Original	MSD	Spikelot MPTW3	% Rec	MSD RPD	QC Limit
Aluminum	11600	31500	5080	391.6N(a)	78.1	
Antimony	15.1	45.7	40.7	61.7N(a)	50.5	
Arsenic	9.9	52.4	40.7	104.5	18.1	
Barium	586	497	40.7	-218.9(b)	21.5	
Beryllium	0.17	35.2	40.7	86.2	3.5	
Boron						
Cadmium	4.8	38.7	40.7	83.4	2.1	
Calcium	136000	137000	5080	19.7 (b)	3.0	
Chromium	639	220	40.7	-1030.6b	17.3	
Cobalt	9.2	41.5	40.7	79.4	2.2	
Copper	3840	26100	40.7	54750.6b	146.0	
Iron	anr					
Lead	852	1180	40.7	806.7(b)	141.9	
Magnesium	6410	10700	5080	84.4	9.6	
Manganese	705	679	40.7	-63.9(b)	15.7	
Molybdenum						
Nickel	406	257	40.7	-366.5(b)	0.4	
Potassium	1100	6730	5080	110.8	4.1	
Selenium	0.0	33.7	40.7	82.9	5.2	
Silver	50.9	51.1	40.7	-0.5N(a)	1.0	
Sodium	730	6480	5080	113.1	10.6	
Strontium						
Thallium	0.0	31.5	40.7	77.5	3.2	
Tin						
Titanium						
Vanadium	16.0	51.2	40.7	86.6	2.8	
Zinc	1040	2440	40.7	3443.4(b)	93.4	

Associated samples MP6970: T19891-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference.

(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

8.2.2
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6970
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 12/04/07

Metal	LCS Result	Spikelot MPLCD049	% Rec	QC Limits
Aluminum	10700	7730	138.4	58-142
Antimony	53.4	60.6	88.1	17-223
Arsenic	235	257	91.4	80-120
Barium	496	472	105.1	82-118
Beryllium	84.1	88.4	95.1	82-118
Boron				
Cadmium	106	117	90.6	82-119
Calcium	3710	3640	101.9	79-121
Chromium	81.0	72.8	111.3	79-121
Cobalt	80.2	82.5	97.2	82-118
Copper	98.6	100	98.6	83-118
Iron				
Lead	158	166	95.2	81-119
Magnesium	3140	3000	104.7	77-123
Manganese	383	374	102.4	80-120
Molybdenum				
Nickel	97.5	103	94.7	82-118
Potassium	2750	2410	114.1	71-129
Selenium	169	173	97.7	76-124
Silver	129	123	104.9	61-139
Sodium	415	574	72.3	56-144
Strontium				
Thallium	177	194	91.2	76-124
Tin				
Titanium				
Vanadium	157	138	113.8	75-125
Zinc	194	201	96.5	79-120

Associated samples MP6970: T19891-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits
 (anr) Analyte not requested

8.2.3
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6970
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date:

12/04/07

Metal	T198907-1 Original	SDL 1:5	RPD	QC Limits
Aluminum	114000	117000	4.1	0-10
Antimony	149	204	0.6	0-10
Arsenic	97.1	101	3.9	0-10
Barium	5770	6130	6.3	0-10
Beryllium	1.68	0.00	100.0 (a)	0-10
Boron				
Cadmium	46.8	50.6	8.1	0-10
Calcium	1340000	2590000	98.0* (b)	0-10
Chromium	6290	7210	14.6* (b)	0-10
Cobalt	90.6	103	12.2* (b)	0-10
Copper	37800	37700	6.5	0-10
Iron	anr			
Lead	8390	9610	14.5* (b)	0-10
Magnesium	63100	71600	15.9* (b)	0-10
Manganese	6950	7920	7.4	0-10
Molybdenum				
Nickel	4000	4660	12.8* (b)	0-10
Potassium	10800	8690	21.0* (b)	0-10
Selenium	0.00	0.00	NC	0-10
Silver	501	489	3.2	0-10
Sodium	7190	7240	0.6	0-10
Strontium				
Thallium	0.00	0.00	NC (a)	0-10
Tin				
Titanium				
Vanadium	158	173	9.8	0-10
Zinc	10300	13400	17.4* (b)	0-10

Associated samples MP6970: T19891-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

(b) Serial dilution indicates possible matrix interference.

8.2.4
8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6972
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

12/04/07

Metal	RL	IDL	MB raw	final
Aluminum	200	51	50.5	<200
Antimony	5.0	1.8	0.80	<5.0
Arsenic	5.0	1.4	0.77	<5.0
Barium	200	.1	-0.020	<200
Beryllium	5.0	.06	-0.66	<5.0
Boron	100	1.4	anr	
Cadmium	4.0	.5	0.010	<4.0
Calcium	5000	8	-9.5	<5000
Chromium	10	.9	-2.1	<10
Cobalt	50	.99	-0.38	<50
Copper	25	1.4	-2.1	<25
Iron	100	16	-13	<100
Lead	3.0	.7	0.61	<3.0
Magnesium	5000	8	-0.66	<5000
Manganese	15	.2	-0.15	<15
Molybdenum	10	.45	anr	
Nickel	40	1	-1.5	<40
Potassium	5000	80	-150	<5000
Selenium	5.0	1.7	-0.72	<5.0
Silicon	200		anr	
Silver	10	.5	-0.10	<10
Sodium	5000	160	-57	<5000
Strontium	20	.5	anr	
Thallium	10	1.5	1.9	<10
Tin	20	1.5	anr	
Titanium	20	.5	anr	
Vanadium	50	.4	0.21	<50
Zinc	20	.8	-0.020	<20

Associated samples MP6972: T19891-10, T19891-13, T19891-19

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits
(anr) Analyte not requested

83.1
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6972
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 12/04/07 12/04/07

Metal	T19861-14		RPD	QC Limits	T19861-14		Spikelot MPTW3	% Rec	QC Limits
	Original	DUP			Original	MS			
Aluminum	97.3	81.2	18.0	0-20	97.3	49000	50000	97.8	75-125
Antimony	4.0	4.5	11.8	0-20	4.0	377	400	93.3	75-125
Arsenic	2.3	2.0	14.0	0-20	2.3	395	400	98.2	75-125
Barium	0.42	0.18	80.0 (a)	0-20	0.42	396	400	98.9	75-125
Beryllium	0.0	0.0	NC	0-20	0.0	400	400	100.0	75-125
Boron	anr								
Cadmium	0.0	0.0	NC	0-20	0.0	382	400	95.5	75-125
Calcium	113	59.5	62.0 (a)	0-20	113	47900	50000	95.6	75-125
Chromium	0.0	0.0	NC	0-20	0.0	368	400	92.0	75-125
Cobalt	0.0	0.0	NC	0-20	0.0	367	400	91.8	75-125
Copper	2.6	1.6	47.6 (a)	0-20	2.6	397	400	98.6	75-125
Iron	0.0	0.0	NC	0-20	0.0	46100	50000	92.2	75-125
Lead	5.1	5.1	0.0	0-20	5.1	384	400	94.7	75-125
Magnesium	0.0	0.0	NC	0-20	0.0	46300	50000	92.6	75-125
Manganese	20.9	3.3	145.5*(b)	0-20	20.9	377	400	89.0	75-125
Molybdenum	anr								
Nickel	0.0	0.0	NC	0-20	0.0	362	400	90.5	75-125
Potassium	0.0	0.0	NC	0-20	0.0	44600	50000	89.2	75-125
Selenium	0.0	0.0	NC	0-20	0.0	426	400	106.5	75-125
Silicon	anr								
Silver	0.0	0.0	NC	0-20	0.0	384	400	96.0	75-125
Sodium	0.0	0.0	NC	0-20	0.0	48700	50000	97.4	75-125
Strontium	anr								
Thallium	6.0	4.6	26.4 (a)	0-20	6.0	391	400	96.3	75-125
Tin	anr								
Titanium	anr								
Vanadium	0.42	0.0	200.0(a)	0-20	0.42	377	400	94.1	75-125
Zinc	19.7	12.7	43.2 (a)	0-20	19.7	434	400	103.6	75-125

Associated samples MP6972: T19891-10, T19891-13, T19891-19

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

(b) High RPD due to possible matrix interference.

832
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6972
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date:

12/04/07

Metal	T19861-14 Original	MSD	Spikelot MPTW3	% Rec	MSD RPD	QC Limit
Aluminum	97.3	52100	50000	104.0	6.1	
Antimony	4.0	399	400	98.8	5.7	
Arsenic	2.3	414	400	102.9	4.7	
Barium	0.42	419	400	104.6	5.6	
Beryllium	0.0	424	400	106.0	5.8	
Boron	anr					
Cadmium	0.0	396	400	99.0	3.6	
Calcium	113	51100	50000	102.0	6.5	
Chromium	0.0	390	400	97.5	5.8	
Cobalt	0.0	389	400	97.3	5.8	
Copper	2.6	422	400	104.9	6.1	
Iron	0.0	48900	50000	97.8	5.9	
Lead	5.1	401	400	99.0	4.3	
Magnesium	0.0	49200	50000	98.4	6.1	
Manganese	20.9	404	400	95.8	6.9	
Molybdenum	anr					
Nickel	0.0	384	400	96.0	5.9	
Potassium	0.0	46600	50000	93.2	4.4	
Selenium	0.0	447	400	111.8	4.8	
Silicon	anr					
Silver	0.0	393	400	98.3	2.3	
Sodium	0.0	51600	50000	103.2	5.8	
Strontium	anr					
Thallium	6.0	407	400	100.3	4.0	
Tin						
Titanium	anr					
Vanadium	0.42	399	400	99.6	5.7	
Zinc	19.7	452	400	108.1	4.1	

Associated samples MP6972: T19891-10, T19891-13, T19891-19

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

8.3.2

8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6972
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 12/04/07

Metal	BSP Result	Spikelot MPTW3	% Rec	QC Limits
Aluminum	51600	50000	103.2	80-120
Antimony	398	400	99.5	80-120
Arsenic	415	400	103.8	80-120
Barium	414	400	103.5	80-120
Beryllium	423	400	105.8	80-120
Boron	anr			
Cadmium	395	400	98.8	80-120
Calcium	50700	50000	101.4	80-120
Chromium	390	400	97.5	80-120
Cobalt	390	400	97.5	80-120
Copper	414	400	103.5	80-120
Iron	48700	50000	97.4	80-120
Lead	396	400	99.0	80-120
Magnesium	49100	50000	98.2	80-120
Manganese	399	400	99.8	80-120
Molybdenum	anr			
Nickel	385	400	96.3	80-120
Potassium	46200	50000	92.4	80-120
Selenium	447	400	111.8	80-120
Silicon	anr			
Silver	394	400	98.5	80-120
Sodium	51200	50000	102.4	80-120
Strontium	anr			
Thallium	407	400	101.8	80-120
Tin				
Titanium	anr			
Vanadium	396	400	99.0	80-120
Zinc	443	400	110.8	80-120

Associated samples MP6972: T19891-10, T19891-13, T19891-19

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

8.3.3

8

SERIAL DILUTION RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6972
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date:

12/04/07

Metal	T19861-14 Original	SDL 1:5	RPD	QC Limits
Aluminum	97.3	353	263.2 (a)	0-10
Antimony	4.01	0.00	100.0 (a)	0-10
Arsenic	2.27	7.72	240.1 (a)	0-10
Barium	0.420	0.630	50.0 (a)	0-10
Beryllium	0.00	0.00	NC	0-10
Boron	anr			
Cadmium	0.00	0.00	NC	0-10
Calcium	113	147	30.5 (a)	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt	0.00	0.00	NC	0-10
Copper	2.58	0.00	100.0 (a)	0-10
Iron	0.00	0.00	NC	0-10
Lead	5.06	4.92	2.8	0-10
Magnesium	0.00	0.00	NC	0-10
Manganese	20.9	23.9	14.5* (b)	0-10
Molybdenum	anr			
Nickel	0.00	0.00	NC	0-10
Potassium	0.00	0.00	NC	0-10
Selenium	0.00	0.00	NC	0-10
Silicon	anr			
Silver	0.00	0.00	NC	0-10
Sodium	0.00	0.00	NC	0-10
Strontium	anr			
Thallium	6.02	0.00	100.0 (a)	0-10
Tin	anr			
Titanium	anr			
Vanadium	0.420	2.85	578.6 (a)	0-10
Zinc	19.7	23.9	21.0 (a)	0-10

Associated samples MP6972: T19891-10, T19891-13, T19891-19

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

(b) Serial dilution indicates possible matrix interference.

8.3.4
8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6997
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date:

12/08/07

Metal	RL	IDL	MB raw	final
Mercury	0.017	.0041	-0.0043	<0.017

Associated samples MP6997: T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

84.1

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6997
 Matrix Type: SOLID

Methods: SW846 7471A
 Units: mg/kg

Prep Date:

12/08/07

12/08/07

Metal	T19891-5 Original	QC Limits	T19891-5 Original	Spikelot HGTXWS1	QC % Rec	QC Limits
	Original DUP	RPD	MS			
Mercury	0.0045	0.0	200.0(a) 0-20	0.0045	0.29	0.292 97.8 75-125

Associated samples MP6997: T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

8.4.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6997
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date:

12/08/07

Metal	T19891-5 Original	Spikelot MSD	HGTXWS1 % Rec	MSD RPD	QC Limit
Mercury	0.0045	0.30	0.291	101.4	3.4

Associated samples MP6997: T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

8.4.2
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6997
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date:

12/08/07

Metal	LCS Result	Spikelot HGLCD049	QC % Rec	QC Limits
Mercury	3.9	4.18	93.3	68-132

Associated samples MP6997: T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

8.4.3

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6999
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date:

12/10/07

Metal	RL	IDL	MB raw	final
Mercury	0.20	.049	-0.038	<0.20

Associated samples MP6999: T19891-10, T19891-13, T19891-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.5.1
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6999
 Matrix Type: AQUEOUS

Methods: SW846 7470A
 Units: ug/l

Prep Date:	12/10/07	Method Date:	12/10/07						
Metal	T19860-3 Original DUP	RPD	QC Limits	T19860-3 Original MS	Spikelot HGTXAQ40	% Rec	QC Limits		
Mercury	0.0	0.0	NC	0-6.6	0.0	2.8	3	93.3	78-118

Associated samples MP6999: T19891-10, T19891-13, T19891-19

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

8.5.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6999
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date:

12/10/07

Metal	T19860-3 Original MSD	Spikelot HGTXAQ40 % Rec	MSD RPD	QC Limit
Mercury	0.0	2.8	3	93.3 0.0

Associated samples MP6999: T19891-10, T19891-13, T19891-19

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

8.5.2
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP6999
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 12/10/07

Metal	BSP Result	Spikelot HGTXAQ40	QC % Rec	QC Limits
Mercury	2.8	3	93.3	80-120

Associated samples MP6999: T19891-10, T19891-13, T19891-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.5.3
8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7011
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

12/11/07

Metal	RL	IDL	MB raw	final
Aluminum	10	2.6		
Antimony	0.50	.09		
Arsenic	0.50	.07	anr	
Barium	10	.005	anr	
Beryllium	0.25	.003		
Boron	5.0	.07		
Cadmium	0.25	.025	0.0010	<0.25
Calcium	250	.4		
Chromium	0.50	.045	anr	
Cobalt	2.5	.05		
Copper	1.3	.071		
Iron	5.0	.8		
Lead	0.50	.035	anr	
Magnesium	250	.4		
Manganese	0.75	.01		
Molybdenum	0.50	.023		
Nickel	2.0	.05	-0.16	<2.0
Potassium	250	4		
Selenium	0.50	.085	anr	
Silver	0.50	.025	anr	
Sodium	250	8.1		
Strontium	1.0	.025		
Thallium	1.0	.075		
Tin	1.0	.075		
Titanium	1.0	.025		
Vanadium	2.5	.02		
Zinc	1.0	.04		

Associated samples MP7011: T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7011
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date:

12/11/07

12/11/07

Metal	T19891-5 Original DUP	RPD	QC Limits	T19891-5 Original MS	Spikelot MPTW3	% Rec	QC Limits
Aluminum							
Antimony							
Arsenic	anr						
Barium	anr						
Beryllium							
Boron							
Cadmium	0.0	0.0	NC	0-20	0.0	37.4	40.2
Calcium							
Chromium	anr						
Cobalt							
Copper							
Iron							
Lead	anr						
Magnesium							
Manganese							
Molybdenum							
Nickel	2.4	1.4	52.6 (a)	0-20	2.4	38.5	40.2
Potassium							
Selenium	anr						
Silver	anr						
Sodium							
Strontium							
Thallium							
Tin							
Titanium							
Vanadium							
Zinc							

Associated samples MP7011: T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

8.6.2

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7011
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date:

12/11/07

Metal	T19891-5 Original MSD	Spikelot MPTW3	MSD % Rec	QC RPD	QC Limit
-------	--------------------------	-------------------	--------------	-----------	-------------

Aluminum

Antimony

Arsenic anr

Barium anr

Beryllium

Boron

Cadmium 0.0 40.3 43.6 92.4 7.5

Calcium

Chromium anr

Cobalt

Copper

Iron

Lead anr

Magnesium

Manganese

Molybdenum

Nickel 2.4 41.5 43.6 89.7 7.5

Potassium

Selenium anr

Silver anr

Sodium

Strontium

Thallium

Tin

Titanium

Vanadium

Zinc

Associated samples MP7011: T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

8.6.2

8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7011
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 12/11/07

Metal	LCS Result	Spikelot MPLCD049	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	105	117	89.7	82-119
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel	94.7	103	91.9	82-118
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP7011: T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

8.6.3
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7011
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date:

12/11/07

Metal	T19891-5 Original	SDL 1:5	RPD	QC Limits
-------	----------------------	---------	-----	--------------

Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel	22.0	10.9	50.3 (a)	0-10
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP7011: T19891-1, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

8.6.4

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7020
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date:

12/12/07

Metal	RL	IDL	MB raw	final
Mercury	0.017	.0041	0.00042	<0.017

Associated samples MP7020: T19891-17, T19891-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

87.1

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7020
 Matrix Type: SOLID

Methods: SW846 7471A
 Units: mg/kg

Prep Date:

12/12/07

12/12/07

Metal	T19964-4 Original DUP	RPD	QC Limits	T19964-4 Original MS	Spikelot HGTXWS1	% Rec	QC Limits
Mercury	0.013	0.014	7.4	0-20	0.013	0.27	0.261 98.3 75-125

Associated samples MP7020: T19891-17, T19891-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

87.2

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7020
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date:

12/12/07

Metal	T19964-4 Original	Spikelot HGTXWS1	MSD % Rec	QC RPD	Limit
Mercury	0.013	0.25	0.245	96.7	7.7

Associated samples MP7020: T19891-17, T19891-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

87.2

8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7020
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date:

12/12/07

Metal	LCS Result	Spikelot HGLCD049	QC % Rec	QC Limits
Mercury	4.0	4.18	95.7	68-132

Associated samples MP7020: T19891-17, T19891-18

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

87.3
8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7042
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date:

12/14/07

Metal	RL	IDL	MB raw	final
Aluminum	10	2.6		
Antimony	0.50	.09		
Arsenic	0.50	.07		
Barium	10	.005		
Beryllium	0.25	.003		
Boron	5.0	.07		
Cadmium	0.25	.025		
Calcium	250	.4		
Chromium	0.50	.045		
Cobalt	2.5	.05		
Copper	1.3	.071		
Iron	5.0	.8	-5.0	<5.0
Lead	0.50	.035		
Magnesium	250	.4		
Manganese	0.75	.01		
Molybdenum	0.50	.023		
Nickel	2.0	.05		
Potassium	250	4		
Selenium	0.50	.085		
Silver	0.50	.025		
Sodium	250	8.1		
Strontium	1.0	.025		
Thallium	1.0	.075		
Tin	1.0	.075		
Titanium	1.0	.025		
Vanadium	2.5	.02		
Zinc	1.0	.04		

Associated samples MP7042: T19891-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7042
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 12/14/07 Analyte: 12/14/07

Metal	T19884-2 Original DUP	RPD	QC Limits	T19884-2 Original MS	Spikelot MPTW3	% Rec	QC Limits
Aluminum							
Antimony							
Arsenic							
Barium							
Beryllium							
Boron							
Cadmium							
Calcium							
Chromium							
Cobalt							
Copper							
Iron	18700	19000	1.6	0-20	18700	24100	5750
Lead							
Magnesium							
Manganese							
Molybdenum							
Nickel							
Potassium							
Selenium							
Silver							
Sodium							
Strontium							
Thallium							
Tin							
Titanium							
Vanadium							
Zinc							

Associated samples MP7042: T19891-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

8.8.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7042
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date:

12/14/07

Metal	T19884-2 Original MSD	Spikelot MPTW3	MSD % Rec	QC RPD	QC Limit
-------	--------------------------	-------------------	--------------	-----------	-------------

Aluminum

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron	18700	23000	5690	75.6	4.7
------	-------	-------	------	------	-----

Lead

Magnesium

Manganese

Molybdenum

Nickel

Potassium

Selenium

Silver

Sodium

Strontium

Thallium

Tin

Titanium

Vanadium

Zinc

Associated samples MP7042: T19891-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

8.8.2
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7042
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date:

12/14/07

Metal	LCS Result	Spikelot MPLCD049	QC % Rec	QC Limits
-------	------------	-------------------	----------	-----------

Aluminum

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron 13700 14500 94.5 51-149

Lead

Magnesium

Manganese

Molybdenum

Nickel

Potassium

Selenium

Silver

Sodium

Strontium

Thallium

Tin

Titanium

Vanadium

Zinc

Associated samples MP7042: T19891-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

8.8.3

8

SERIAL DILUTION RESULTS SUMMARY

Login Number: T19891
 Account: KLETXAU - KLEINFELDER
 Project: Falcon Refinery Superfund Site/Ingleside, TX

QC Batch ID: MP7042
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date:

12/14/07

Metal	T19884-2 Original SDL 1:5	RPD	QC Limits
-------	------------------------------	-----	--------------

Aluminum

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron 167000 187000 12.0*(a) 0-10

Lead

Magnesium

Manganese

Molybdenum

Nickel

Potassium

Selenium

Silver

Sodium

Strontium

Thallium

Tin

Titanium

Vanadium

Zinc

Associated samples MP7042: T19891-18

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Serial dilution indicates possible matrix interference.

8.8.4

8



General Chemistry

QC Data Summaries

6

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GN12774	0.010	<0.010	mg/l	0.2	0.21	101.0	88-113%

Associated Samples:

Batch GN12774: T19891-10, T19891-13, T19891-19

(*) Outside of QC limits

16

6

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GN12774	T19897-1	mg/l	0.0040 U	<0.010	0.0	0-11%
Solids, Percent	GN12743	T19891-4	%	80	81.3	1.6	0-20%
Solids, Percent	GN12780	T19994-1	%	81.7	81.7	0.0	0-20%

Associated Samples:

Batch GN12743: T19891-1, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18, T19891-2, T19891-3, T19891-4, T19891-5, T19891-5D, T19891-6, T19891-7, T19891-8, T19891-9

Batch GN12774: T19891-10, T19891-13, T19891-19

Batch GN12780: T19891-5S

(*) Outside of QC limits

9.2

9

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T19891
Account: KLETXAU - KLEINFELDER
Project: Falcon Refinery Superfund Site/Ingleside, TX

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GN12774	T19897-1	mg/l	0.0040 U	0.1	0.086	86.0	70-122%

Associated Samples:

Batch GN12774: T19891-10, T19891-13, T19891-19

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

9.3

9



Misc. Forms

Custody Documents and Other Forms

(Accutest Laboratories Southeast, Inc.)

Includes the following where applicable:

- Chain of Custody

SUB COC

Page 1 of

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

10.1 10

T19891: Chain of Custody

Page 1 of 2

Accutest Laboratories Southeast, Inc.



ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: T19891 CLIENT: AIGC PROJECT: T19891
 DATE/TIME RECEIVED: 12-4-07 09:00 # OF COOLERS RECEIVED: 2 COOLER TEMPS: 24 20
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: 7908 8673 1378

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

- NUMBER OF ENCORES ? 0
- NUMBER OF 5035 FIELD KITS ? 0
- NUMBER OF LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS: T19891-5 received 2 jars coc has 1 jar

SAMPLE INFORMATION

- SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- CORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- TIMES ON COC DOES NOT MATCH LABEL(S)
- ID'S ON COC DOES NOT MATCH LABEL(S)
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING INSTRUCTIONS
- UNCLEAR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED
- 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TECHNICIAN SIGNATURE/DATE C.T. 12-4-07

TECHNICIAN SIGNATURE/DATE FM 12-4-07

ASBD 10/03/06

10.1
10

T19891: Chain of Custody
Page 2 of 2



General Chemistry

QC Data Summaries

(Accutest Laboratories Southeast, Inc.)

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries



METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T19891
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: KLETXAU: Falcon Refinery Superfund Site/Ingleside, TX

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GN28687	2.0	<2.0	mg/kg	20.0	20.6	103.0	80-120%

Associated Samples:

Batch GN28687: T19891-1, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9

(*) Outside of QC limits

11.1

11

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T19891
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: KLETXAU: Falcon Refinery Superfund Site/Ingleside, TX

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GN28687	T19891-1	mg/kg	2.1 B	<2.4	6.0	0-20%

Associated Samples:

Batch GN28687: T19891-1, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9

(*) Outside of QC limits

112
11

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T19891
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: KLETXAU: Falcon Refinery Superfund Site/Ingleside, TX

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GN28687	T19891-1	mg/kg	2.1 B	23.8	21.0	79.4*(a)	80-120%

Associated Samples:

Batch GN28687: T19891-1, T19891-11, T19891-12, T19891-14, T19891-15, T19891-16, T19891-17, T19891-18, T19891-2, T19891-3, T19891-4, T19891-5, T19891-6, T19891-7, T19891-8, T19891-9

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

11.3

11